HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

EX2K CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION
KDL-26L5000	RM-YD028	US
KDL-26L5000	RM-YD028	CANADA
KDL-26L5000	RM-YD028	MEXICO
KDL-32L5000	RM-YD028	US
KDL-32L5000	RM-YD028	CANADA
KDL-32L5000	RM-YD028	MEXICO

ORIGINAL MANUAL ISSUE DATE: 12/2008

☛ :UPDATED ITEM

REVISION DATE	SUBJECT
12/2008	No revisions or updates are applicable at this time.
1/2009	Updated Disassembly Section. Replaced pages 13-20. Updated A Board Conductor Side PWB. Replaced page 42. Updated Self-Diagnostic Function. Replaced page 12.
4/2009	Added Self-Diagnostic Logo to Front Cover. Updated Table of Contents, Description of LED Indicators, Self Check Table, Disassembly Section, Service Adjustments and Exploded View Section.Replaced pages 2, 3, 11, 12, 13, 21, 50. Updated Exploded View Section. Added Bezel Assembly and Rear Cover Assembly P/Ns for Canada/Mexico destinations. Added ETC-Inverter MT Board P/Ns. Replaced pages 49-51.
8/2009	Updated Exploded View Section to remove LCD Panel specific information. Replaced pages 50 & 51.

LCD DIGITAL COLOR TELEVISION

SONY®

9-883-809-04

Self Diagnosis Supported model

SERVICE MANUAL

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KDL-32L5000

RM-YD028

LCD DIGITAL COLOR TELEVISION

SONY®

9-883-809-04

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SPECIFICATIONS

Power Requirements 120V - 240V AC, 50/60Hz

VIDEO (IN) 1/2:

S Video (4-Pin Mini DIN) (Video 2 only)

Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative

C: 0.286 Vp-p (Burst signal), 75 ohms

Video

1 Vp-p, 75 ohms unbalanced, sync negative

Audio

500 mVrms (Typical)

Impedance:47 kilohms

COMPONENT IN 1/2:

YP_BP_R (Component Video)

Y:1.0 Vp-p, 75 ohms unbalanced, sync negative

P_B:0.7 Vp-p, 75 ohms

P_R:0.7 Vp-p, 75 ohms

Signal format: 480i, 480p, 720p, 1080i, 1080p

Audio

500 mVrms (Typical)

Impedance: 47 kilohms

HDMI IN 1/2/3:

HDMI

Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p

Audio: Two channel linear PCM 32, 44.1, and 48 kz, 16, 20 and 24 bits, Dolby Digital

Audio (HDMI IN 1 only):

500 mVrms (Typical)

Impedance: 47 kilohms

AUDIO OUT:

500 mVrms (Typical)

DIGITAL AUDIO OUT (OPTICAL):

PCM/Dolby Digital optical signal

PC IN:

Analog RGB (D-sub 15-pin):

0.7 Vp-p, 75 ohms, positive

PC AUDIO INPUT:

Stereo mini jack

500 mVrms (Typical)

Impedance: 47 kilohms

Trademark Information

Macintosh is a trademark of Apple Inc., registered in the U.S. and other countries.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

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"PLAYSTATION" is a registered trademark and "PS3" is a trademark of Sony Computer Entertainment Inc.

Design and specifications are subject to change without notice.

	KDL-26L5000	KDL-32L5000
Power Consumption		
in use	75W	135W
in standby	Less than 0.5 W	
Speaker Output (W)	8W + 8W	10W + 10W
Speaker/Full Range (2)		
mm	40 X 100 mm	34 X 160 mm
in	$1^{5/8}$ x 4 in	$1^{3/8}$ x $6^{1/3}$ in
Dimensions (W x H x D)		
with stand		
mm	679 x 485 x 222 mm	807 x 557 x 222 mm
in	$26^{3/4}$ x $19^{1/8}$ x $8^{3/4}$ in	$31^{7/8}$ x 22 x $8^{3/4}$ in
without stand		
mm	679 x 435 x 93 mm	807 x 508 x 94 mm
in	$26^{3/4}$ x $17^{1/4}$ x $3^{3/4}$ in	$31^{7/8}$ x 20 x $3^{3/4}$ in
wall-mount hole pattern (mm)	200 x 100	200 x 200
wall-mount screw size (mm)	M4 8-12	M6 8-12
Mass		
with stand		
kg	10.0 kg	12.7 kg
lbs	22 lbs 1 oz	28 lbs 0 oz
without stand		
kg	8.7 kg	11.4 kg
lbs	19 lbs 3 oz	25 lbs 3 oz

All measurements are approximations.

Television system

NTSC	American TV Standard
ATSC (8VSB terrestrial)	ATSC compliant 8VSB
QAM on cable	ANSI/SCTE 07 2000

Channel coverage

	Analog	Digital
Terrestrial	2-69	2-69
Cable	1-135	1-135

Antenna

75-ohm external terminal for RF inputs

Panel System

LCD (Liquid Crystal Display) Panel

Display Resolution (horizontal x vertical):

1,366 dots x 768 lines

Screen Size (measured diagonally)

approx. 26 inches (KDL-26L5000 only)
approx. 31.5 inches (KDL-32L5000 only)

Supplied Accessories

Remote Commander RM-YD028
Two Size AA (R6) Batteries
Operating Instructions
Quick Setup Guide
Warranty Card
Safety and Regulatory Booklet
Attaching to the Table-Top Stand
Screws (4)

Optional Accessories

Connecting Cables
Support Belt Kit
Wall-Mount Bracket
SU-WL100 (KDL-26L5000 only)
SU-WL500 (KDL-32L5000 only)

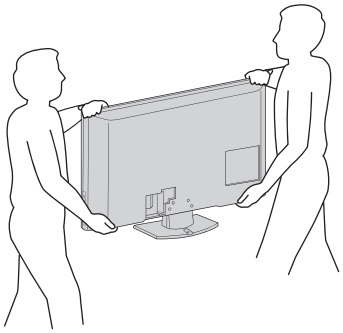
WARNINGS AND CAUTIONS - ENGLISH

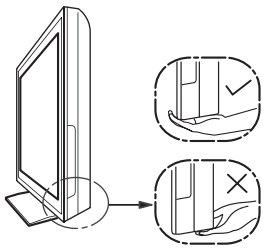
CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CARRYING THE TV

- Disconnect all cables when carrying the TV.
- Carry the TV with the adequate number of people; larger size TVs require two or more people.
- Placement of the hands carrying the TV is very important for safety and to avoid damage.





WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

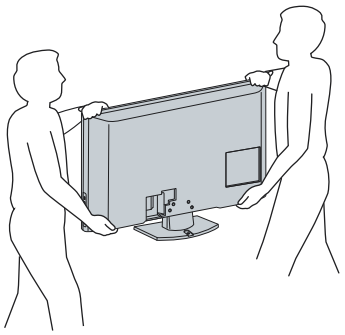
WARNINGS AND CAUTIONS - FRENCH

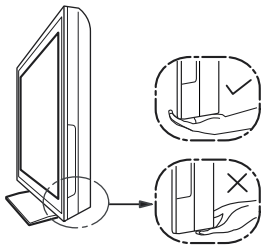
ATTENTION!!

Ces instructions de service sont à l'usage du personnel de service qualifié seulement. Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié faire ainsi.

TRANSPORTER LE TÉLÉVISEUR

- Débranchez tous les câbles avant de transporter le téléviseur.
- Transportez le téléviseur avec le nombre de personnes approprié ; un téléviseur de grande taille doit être transporté par au moins deux personnes.
- Lors du transport du téléviseur, l'emplacement des mains est très important pour votre sécurité, ainsi que pour éviter de causer des dommages.





Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY-RELATED COMPONENT WARNING

There are critical components used in LCD color TVs that are important for safety. These components are identified with shading and ⚠ mark on the schematic diagrams and the electrical parts list. It is essential that these critical parts be replaced only with the part number specified in the electrical parts list to prevent electric shock, fire, or other hazard.

NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor guarantee.

USE CAUTION WHEN HANDLING THE LCD PANEL

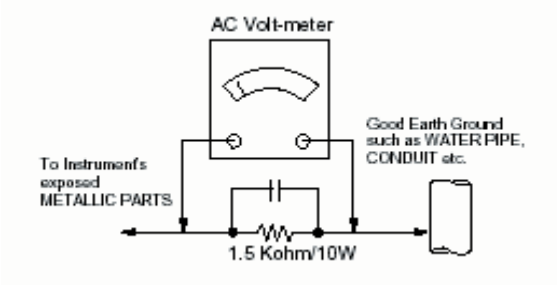
When repairing the LCD panel, be sure you are grounded by using a wrist band.

When installing the LCD panel on a wall, the LCD panel must be secured using the 4 mounting holes on the rear cover.

To avoid damaging the LCD panel:

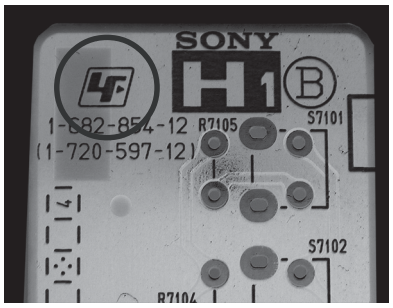
- → do not press on the panel or frame edge to avoid the risk of electric shock.
- → do not scratch or press on the panel with any sharp objects.
- → do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
- → do not expose the LCD panel to direct sunlight.
- → avoid contact with water. It may cause a short circuit within the module.
- → disconnect the AC adapter when replacing the backlight (CCFL) or inverter circuit. (High voltage occurs at the inverter circuit at 650Vrms.)
- → always clean the LCD panel with a soft cloth material.
- → use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
- → protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

LEAKAGE CURRENT HOT CHECK CIRCUIT



example 1

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. H1 etc [see example]. The servicing of these boards requires special precautions to be taken as outlined below.



It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints.
Lead Free Solder is available under the following part numbers :

Part number	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade.
This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to *http://www.sony-training.com*

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

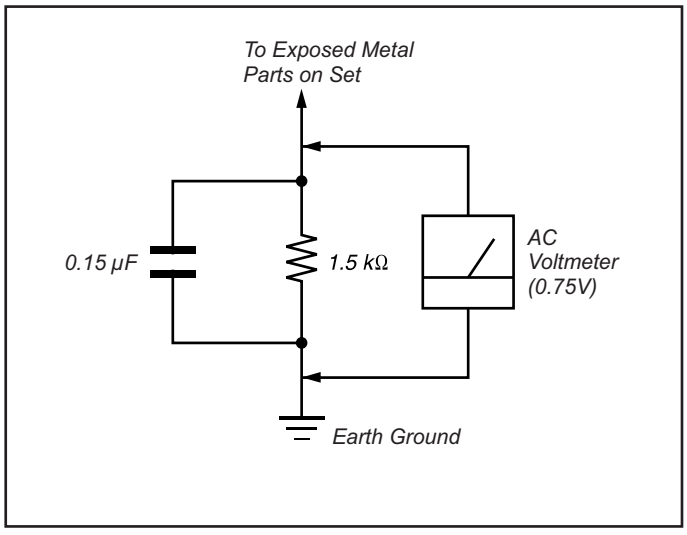


Figure A. Using an AC voltmeter to check AC leakage.

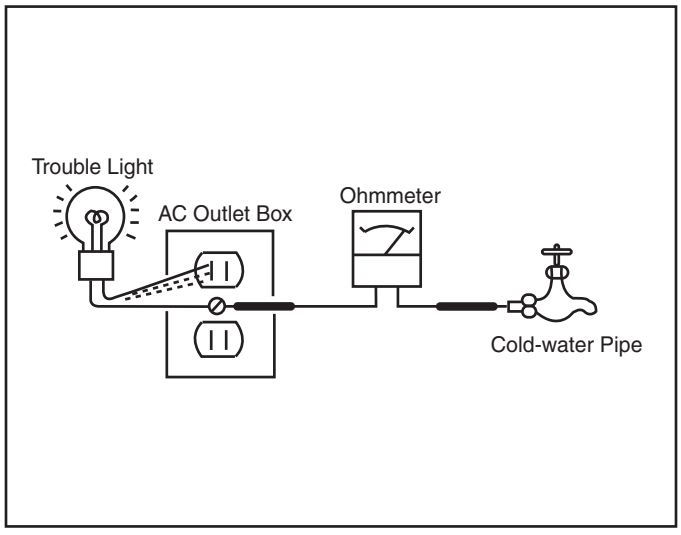


Figure B. Checking for earth ground.

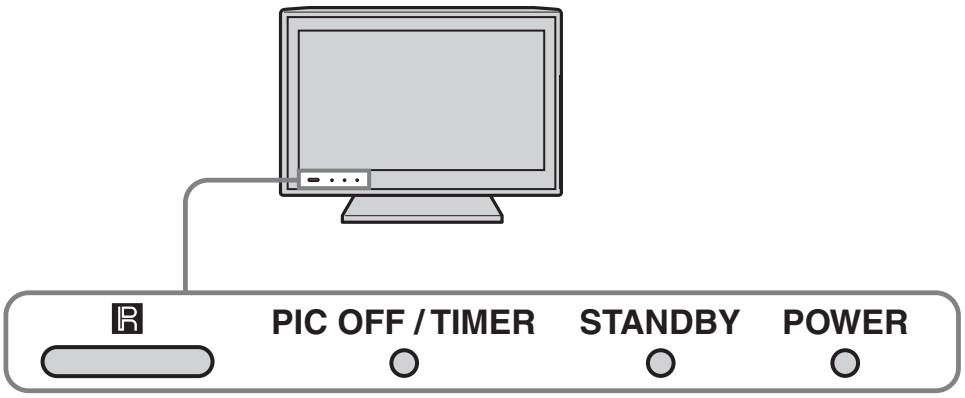
SELF-DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY LED indicator will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. Diagnostic Test Indicators

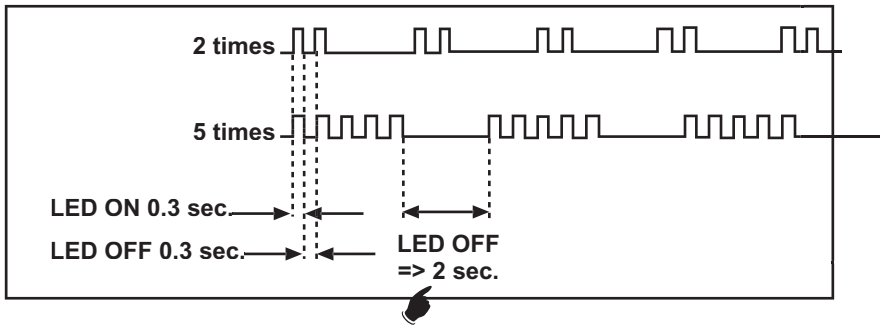
When an error occurs, the STANDBY LED indicator will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the indicator will identify the first of the problem areas.

Control Buttons



Description of LED Indictors

LED	LED Type	Description
POWER LED	Green LED	* Lights up in green when the TV set is turned on.
STANDBY LED	Red LED	* Lights up in red when TV is in PC standby mode. * If LED blinks continuously, this may indicate that the TV needs servicing.
PIC OFF/ TIMER LED	Green or Orange LED	* Lights up in green when Picture Off is activated. * Lights up in orange when the timer is set. When timer is set, this LED remains lit even when the TV is turned off.



☛ **LED Indicators**

Diagnostic Item Description	Number of times STANDBY lamp flashes	Possible Location
Low B error	3 times	A (Main) Board
T-CON power error	5 times	LCD Panel
Backlight error	6 times	LCD Panel G (Power) Board
Audio abnormal detection	8 times	A (Main) Board Speaker

Viewing the Self Check Diagnostic List

1. TV must be in standby mode. (Power off).
2. Press the following buttons on the Remote Commander within a second of each other:
   DISPLAY ➡ Channel 5 ➡ Volume - ➡ TV POWER.
   The Self Check list displays. ⬆ This differs from accessing Service Adjustments.

Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".
NOTE: If the Service Menu display text is not completely visible, press the Menu HOME button on the Remote Commander to refresh the display.

☛

```
SELF CHECK
BACK
003     LOW B ERROR 1                   000
005     T-CON POWER ERROR               000
006     BACKLIGHT ERROR                 000
008     AUDIO ABNORMAL DETECTOR         000

00000  00012  00000                [Menu]Exit
```

← 1 indicates an error was detected
← 0 indicates no error was detected

↑ ↑ ↑
↑ ↑ 00000: Panel Operation Time by Hour (max 99999)
↑ ↑ Deletion of Penal Operation Time by <7> - > <0> key
↑ 00012: Boot Count (max 99999)
00000: Total Operation Time by Hour (max 99999)

3. To exit Self Check display, turn the power off. Press [Menu] Exit.

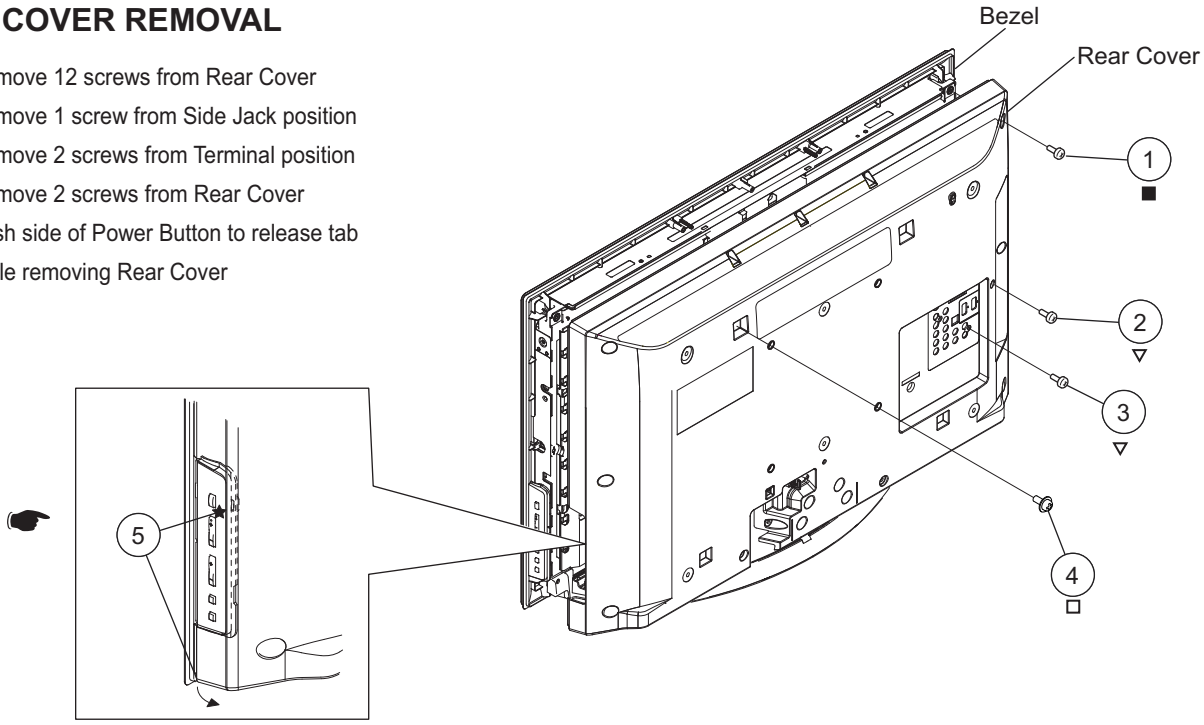
Clearing the Self Check Diagnostic List

1. In Service Mode, press the Channel 8 ➡ Channel 0.

SECTION 1: DISASSEMBLY

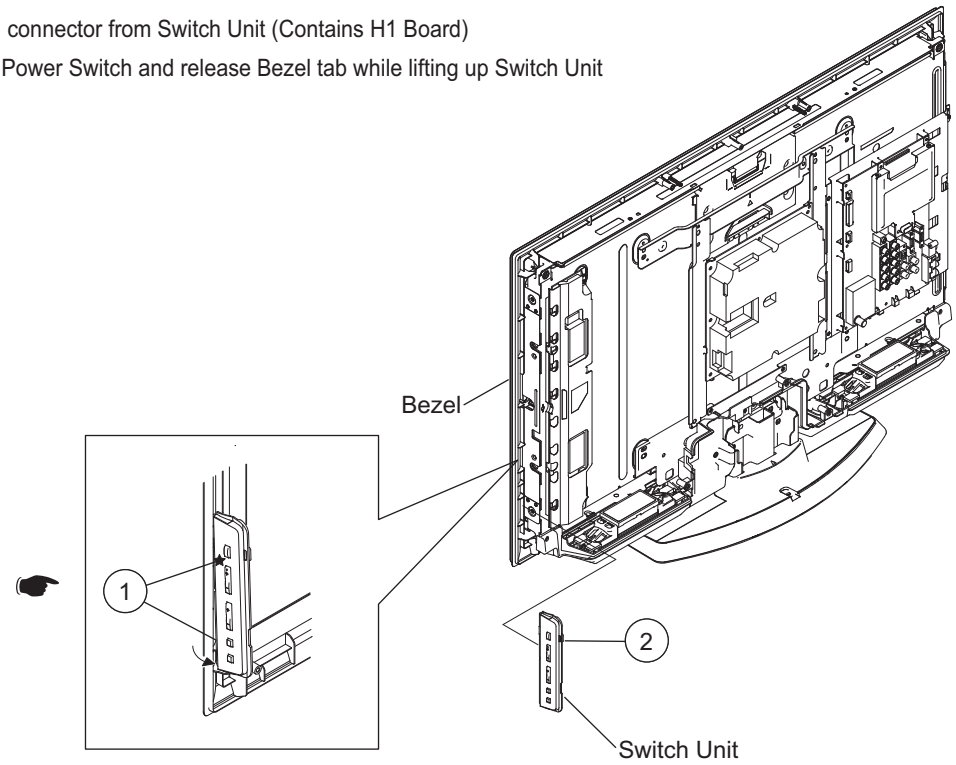
1-1. REAR COVER REMOVAL

(1) Remove 12 screws from Rear Cover
(2) Remove 1 screw from Side Jack position
(3) Remove 2 screws from Terminal position
(4) Remove 2 screws from Rear Cover
(5) Push side of Power Button to release tab while removing Rear Cover



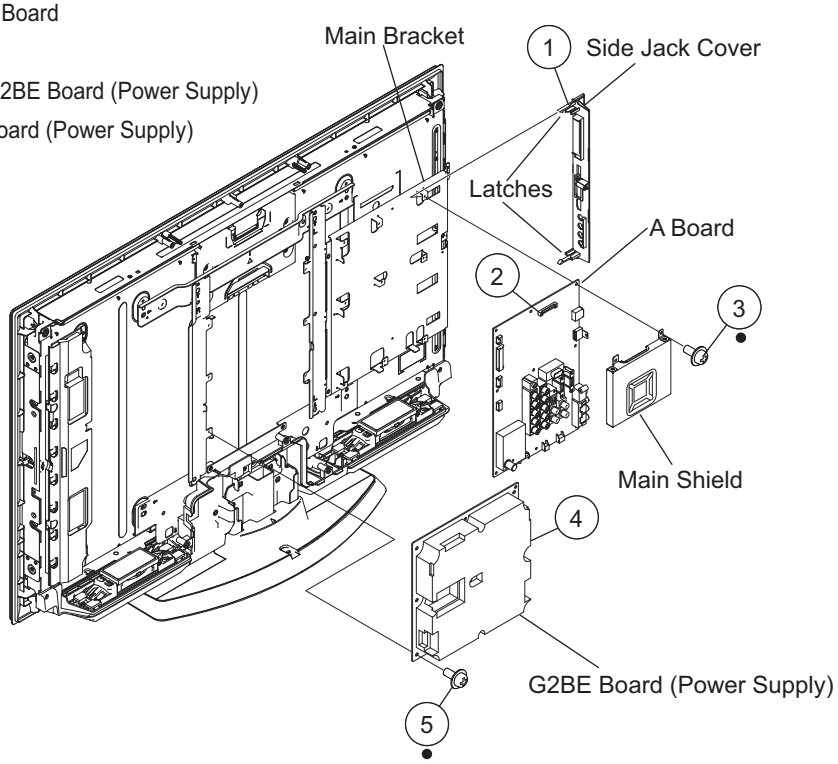
1-2. SWITCH UNIT REMOVAL (CONTAINS H1 BOARD)

(1) Slide out Switch unit from Bezel
(2) Disconnect 1 connector from Switch Unit (Contains H1 Board)
(3) Push side of Power Switch and release Bezel tab while lifting up Switch Unit from Bezel



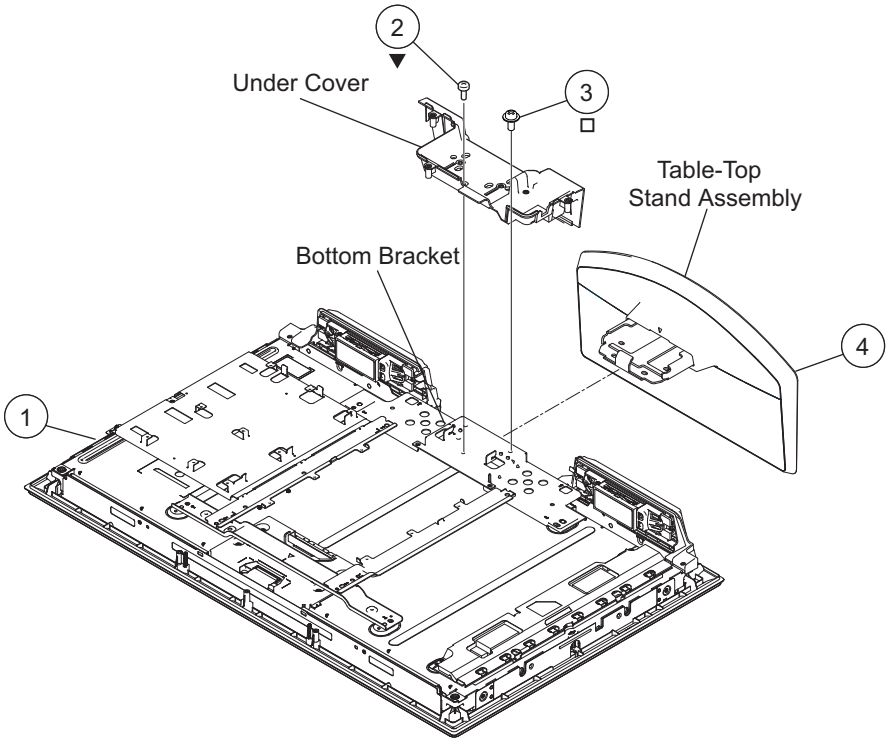
1-3. A BOARD AND G2BE (POWER SUPPLY) BOARD REMOVAL

(1) Lift top and bottom latches from Side Jack Bracket to unhook from Main Bracket
(2) Disconnect 7 connectors from A Board
(3) Remove 9 screws from A Board
(4) Disconnect 3 connectors from G2BE Board (Power Supply)
(5) Remove 6 screws from G2BE Board (Power Supply)



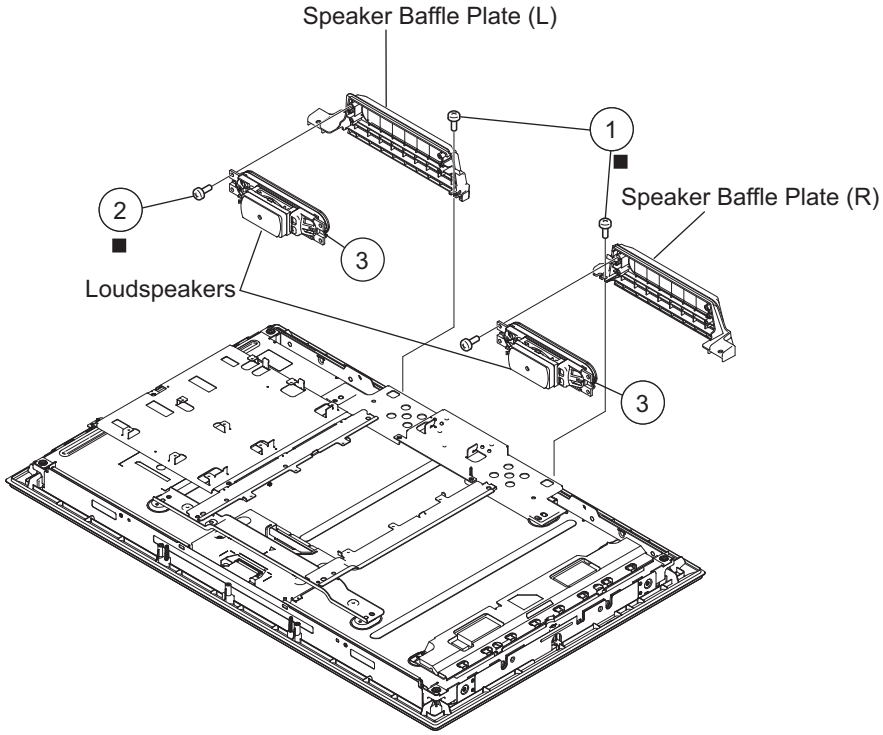
1-4. TABLE-TOP STAND ASSEMBLY AND UNDER COVER REMOVAL

(1) Gently place the TV set face down onto soft cloth
(2) Remove 1 screw from Under Cover
(3) Remove 4 screws Table-Top Stand Assembly
(4) Slide Table-Top Stand Assembly out away from Bottom Bracket



1-5. LOUDSPEAKER REMOVAL

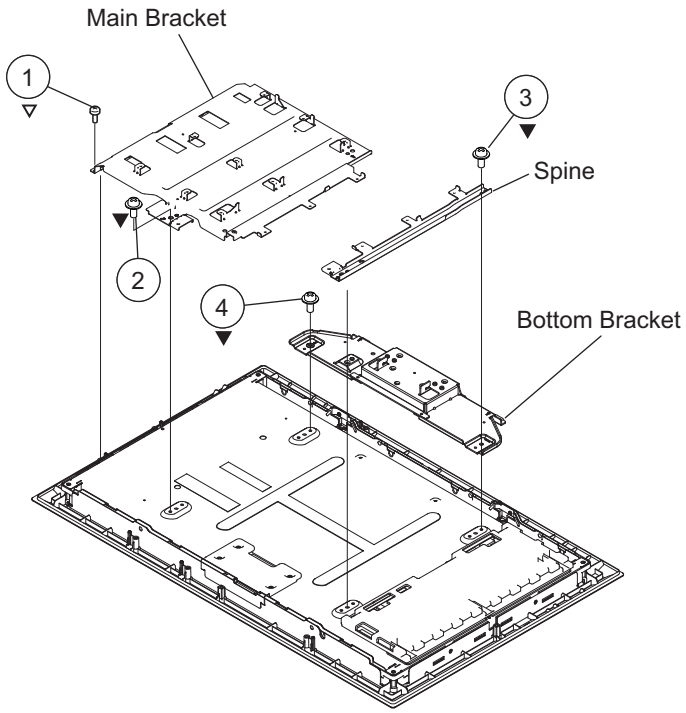
(1) Remove 1 screw from each Speaker Baffle Plate (2 total)
(2) Remove 4 screws from each loudspeaker (8 total)
(3) Disconnect speaker wire



1-6. BRACKETS AND SPINE REMOVAL

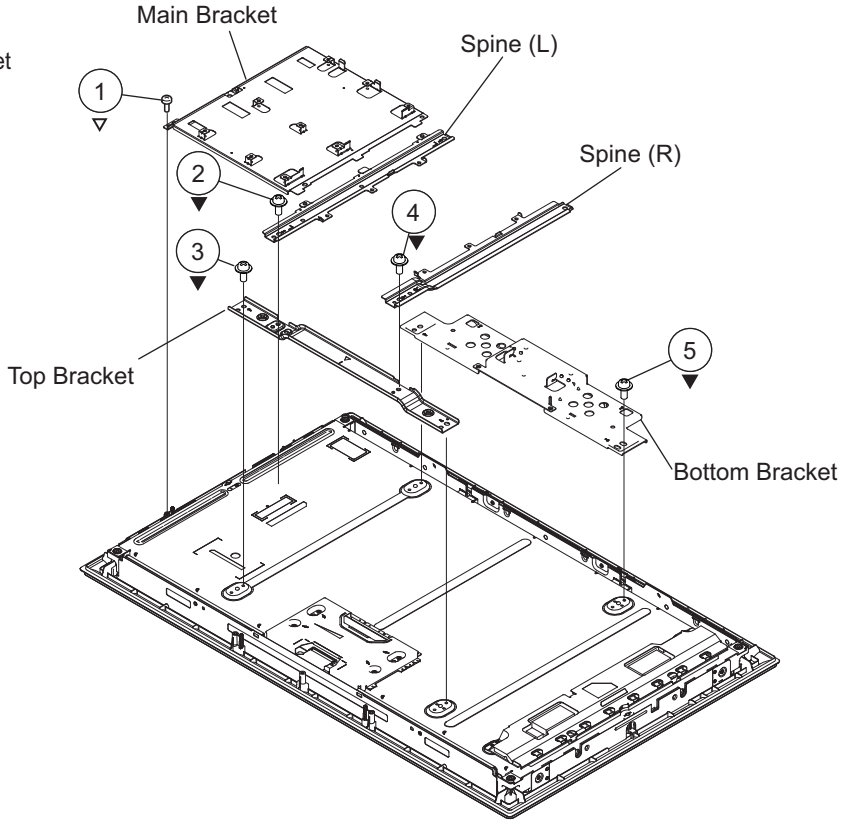
1-6-1. BRACKETS AND SPINE REMOVAL (KDL-26L5000 ONLY)

(1) Remove 1 screw from Main Bracket and Bezel
(2) Remove 2 screws from Main Bracket and LCD Panel
(3) Remove 2 screws from Spine
(4) Remove 1 screw from Bottom Bracket



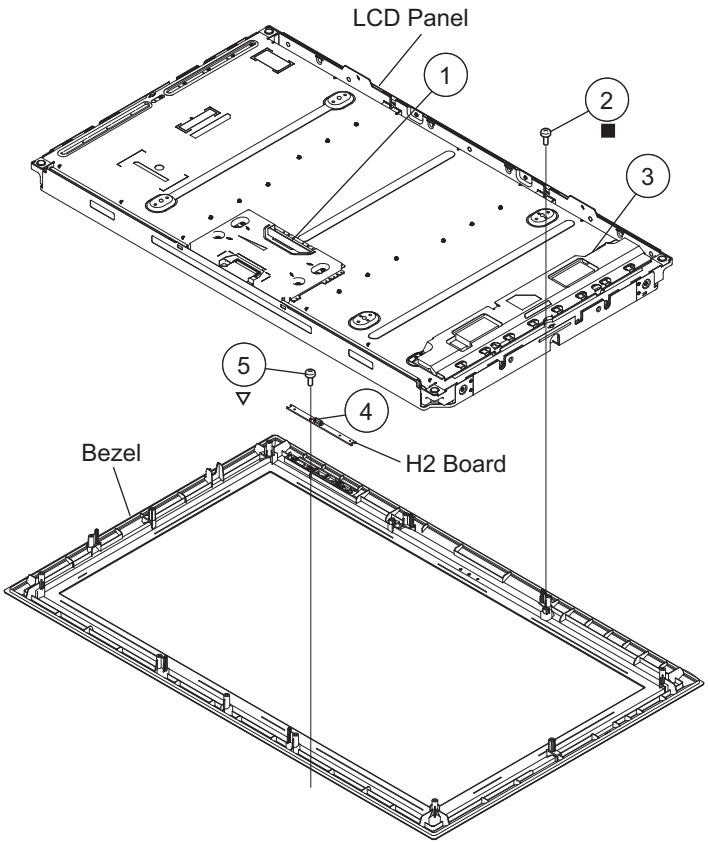
1-6-2. BRACKETS AND SPINE REMOVAL (KDL-32L5000 ONLY)

(1) Remove 1 screw from Main Bracket and Bezel
(2) Remove 2 screws from Spine (L) and Top Bracket
(3) Remove 2 screws from Top Bracket
(4) Remove 2 screws from Spine (R)
(5) Remove 2 screws from Bottom Bracket



1-7. H2 BOARD AND LCD PANEL REMOVAL

(1) Disconnect LVDS connector from T-con
(2) Remove 2 screws from bottom of panel and release LCD panel from Bezel
(3) Disconnect 1 connector from Inverter Board
(4) Disconnect 1 connector from H2 Board
(5) Remove 1 screw from H2 Board



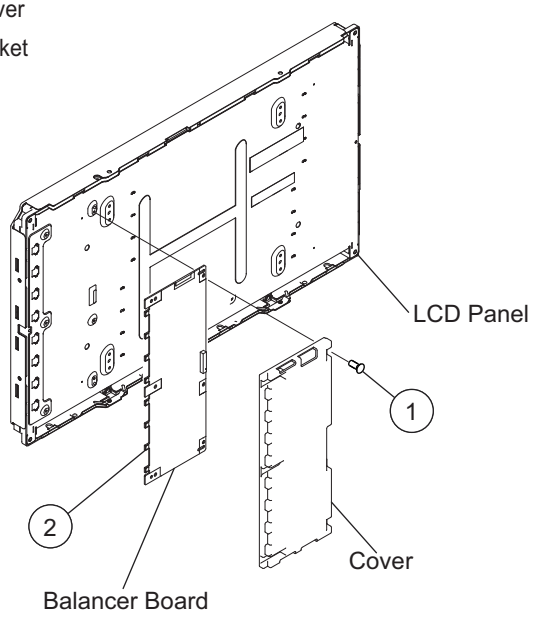
1-7-1. CLEANING THE LCD PANEL

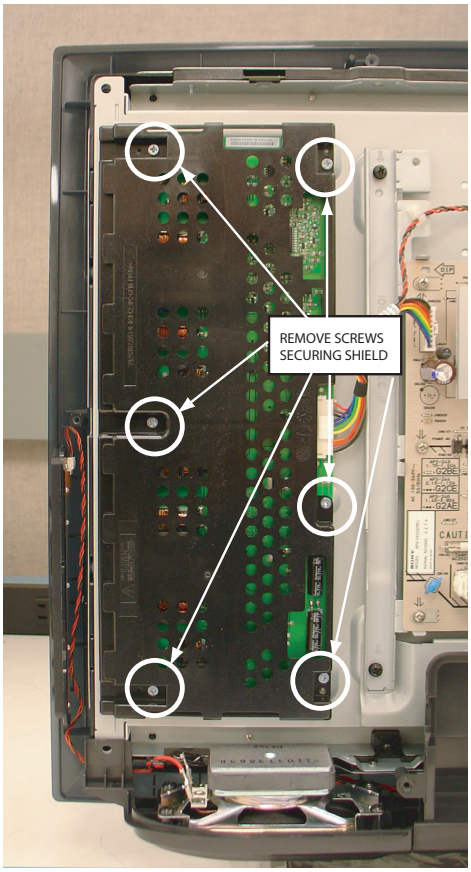
CAUTION: When cleaning the TV, be sure to unplug the power cord to avoid any chance of electric shock.

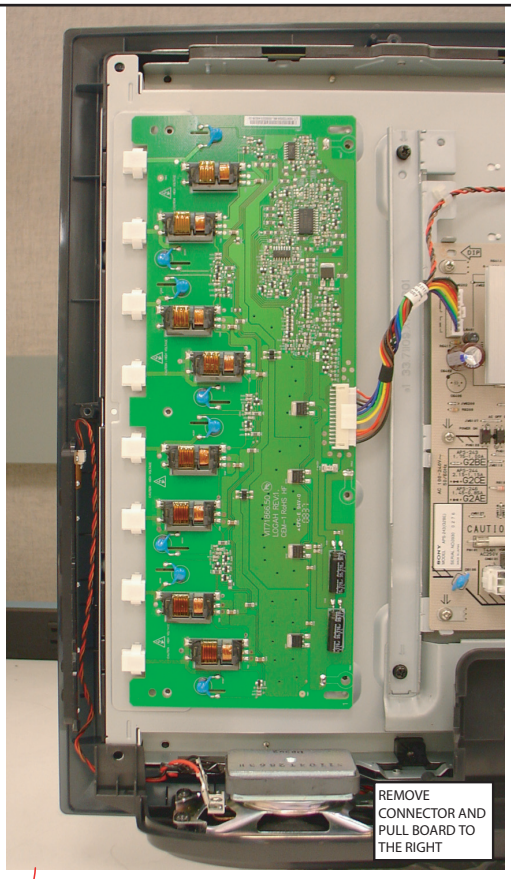
→ Clean the cabinet of the TV with a dry soft cloth.
→ Wipe the LCD screen gently with a soft cloth.
→ Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
→ If using a chemically pretreated cloth, please follow the instruction provided on the package.
→ Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
→ Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.

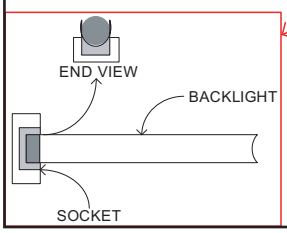
1-8. BALANCER (MT INVERTER) BOARD REMOVAL (KDL-26L5000 ONLY)

(1) Remove 6 screws from Board cover
(2) Pull out the Board from Lamp socket







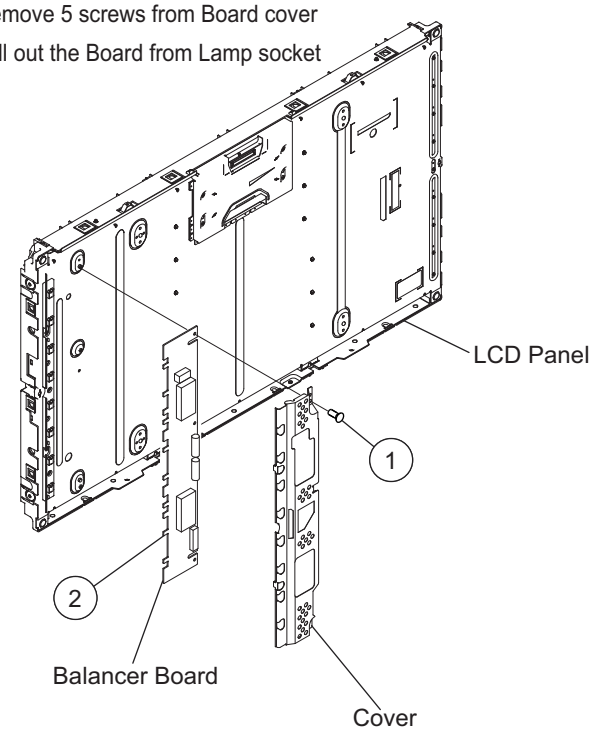


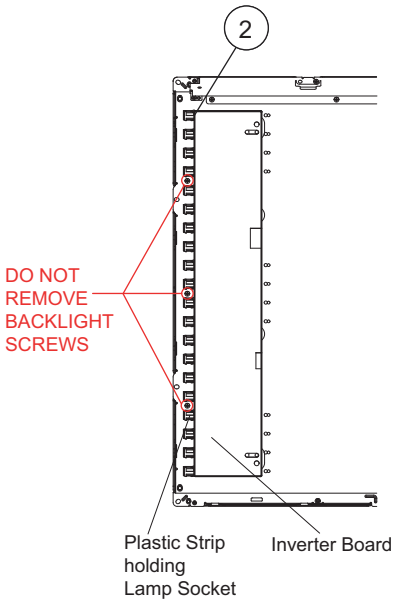
INVERTER BOARD REMOVAL

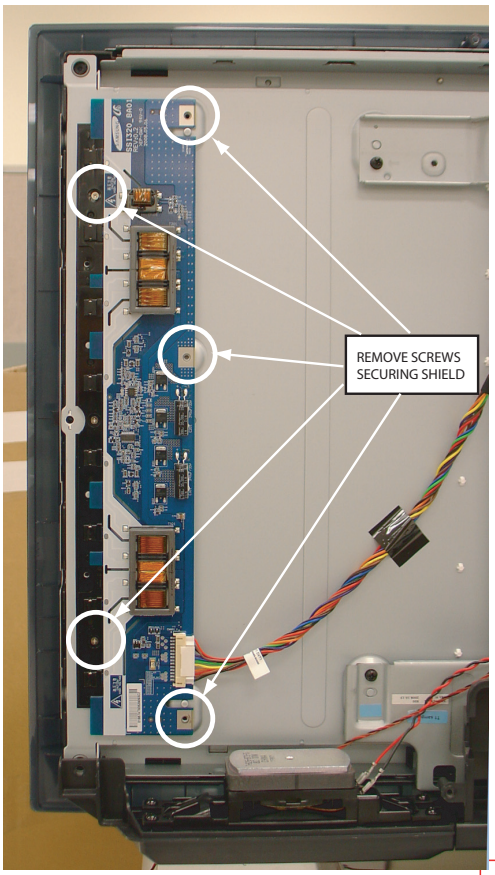
Only remove the screws securing the inverter cover which may be metal or plastic. The remaining plastic strip contains sockets for the fluorescent backlights and should never be loosened. The backlights will pop out of the sockets and/or break the backlight requiring a LCD panel replacement. The example shown is a 32" model but applies to all models.

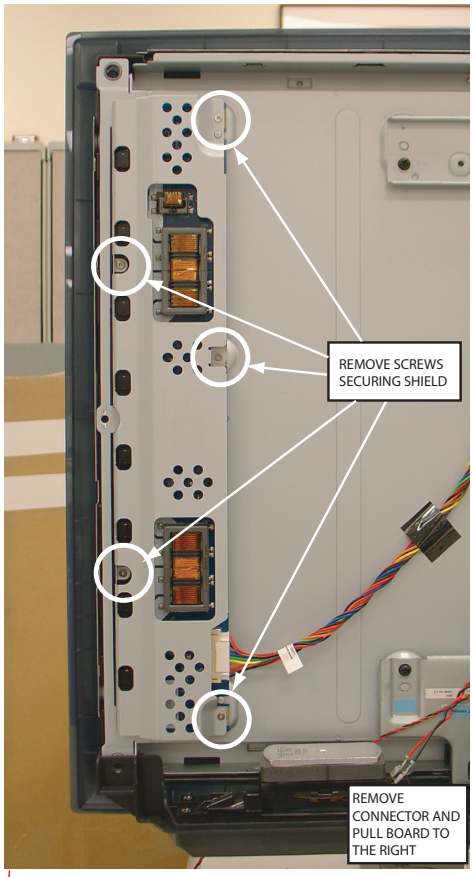
1-9. BALANCER (MT INVERTER) BOARD REMOVAL (KDL-32L5000 ONLY)

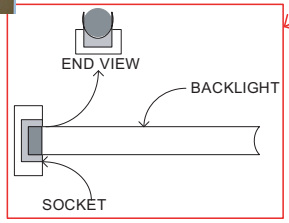
1. Remove 5 screws from Board cover
2. Pull out the Board from Lamp socket









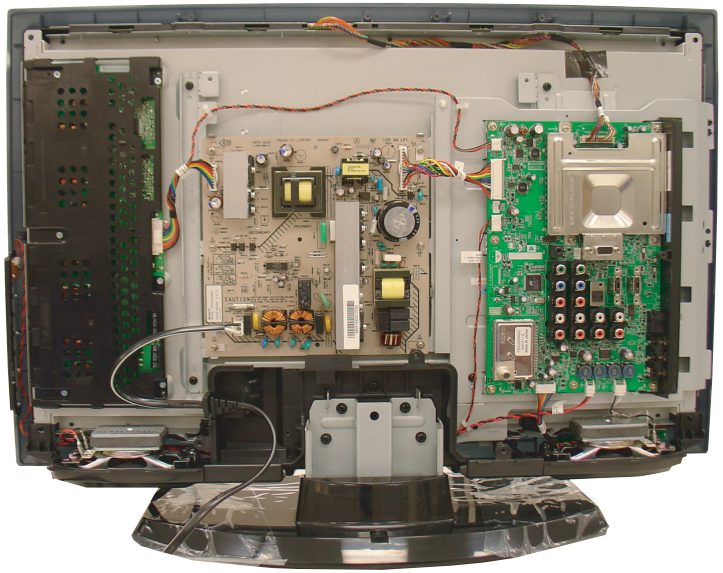


INVERTER BOARD REMOVAL

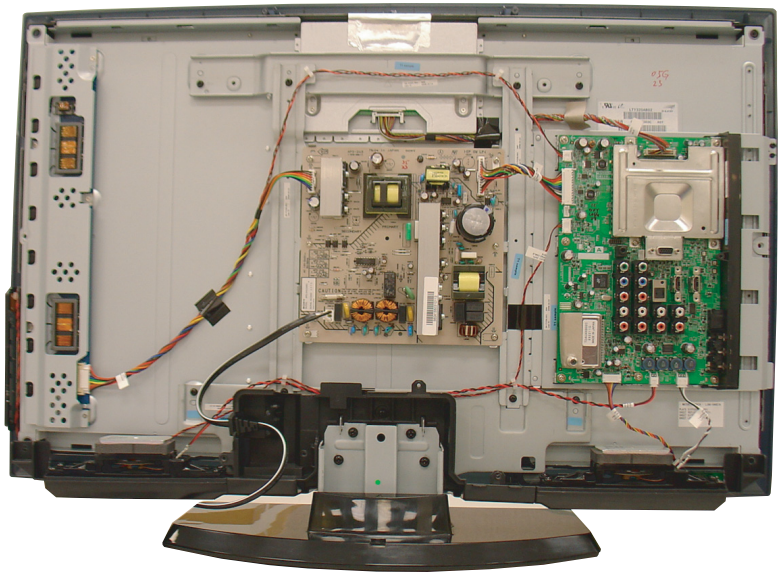
Only remove the screws securing the inverter cover which may be metal or plastic. The remaining plastic strip contains sockets for the fluorescent backlights and should never be loosened. The backlights will pop out of the sockets and/or break the backlight requiring a LCD panel replacement. The example shown is a 32" model but applies to all models.

WIRE DRESSING

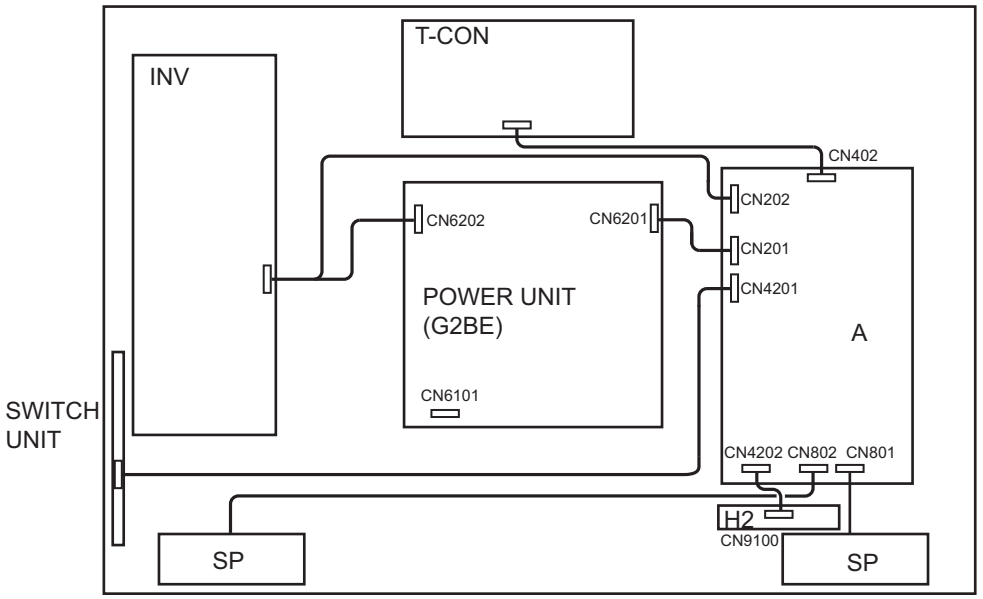
OVERALL VIEW



KDL-26L5000



KDL-32L5000



SECTION 2: SERVICE ADJUSTMENTS

2-1. RESETTING TO FACTORY DEFAULTS

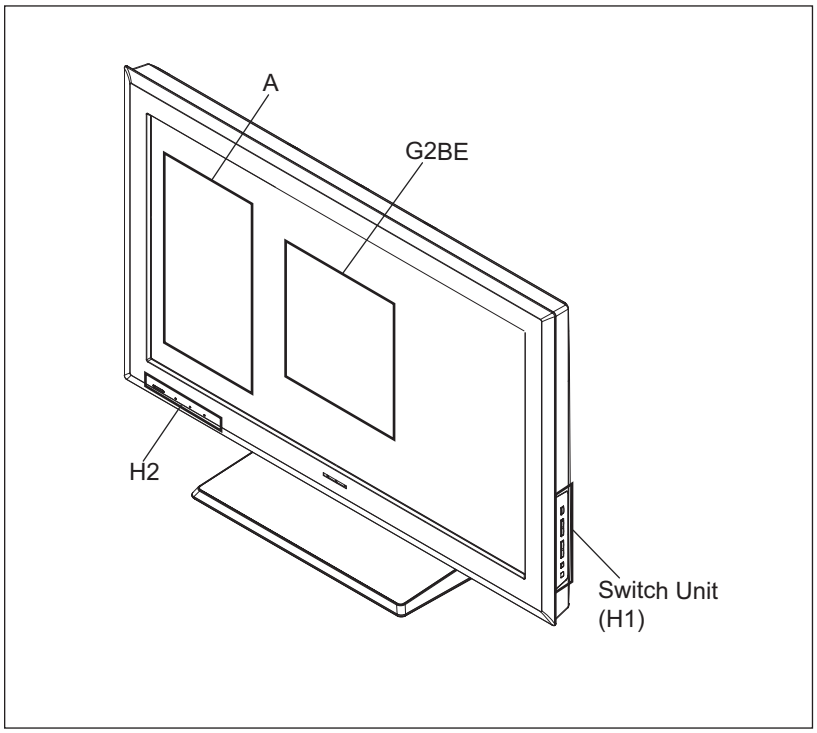
Use the following instructions to restore the User Controls and Channel Memory settings to the preset factory conditions.

1. While holding down the ▲ on the Remote Commander, press the POWER button on the right side of the set.

   The set restarts and displays the initial setup screen. This may take several minutes.

SECTION 3: DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_{16}$ W in chip resistance.

: nonflammable resistor

: fusible resistor

: internal component

: panel designation and adjustment for repair

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

NOTE: The components identified by a red outline and a mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: ※	ADJUSTMENT RESISTOR

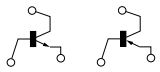
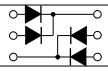
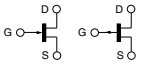
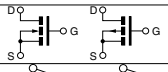
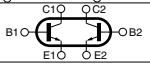
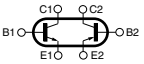
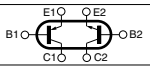
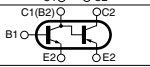
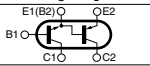
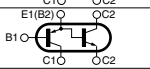
CAPACITOR

: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

COIL

: LF-8L MICRO INDUCTOR

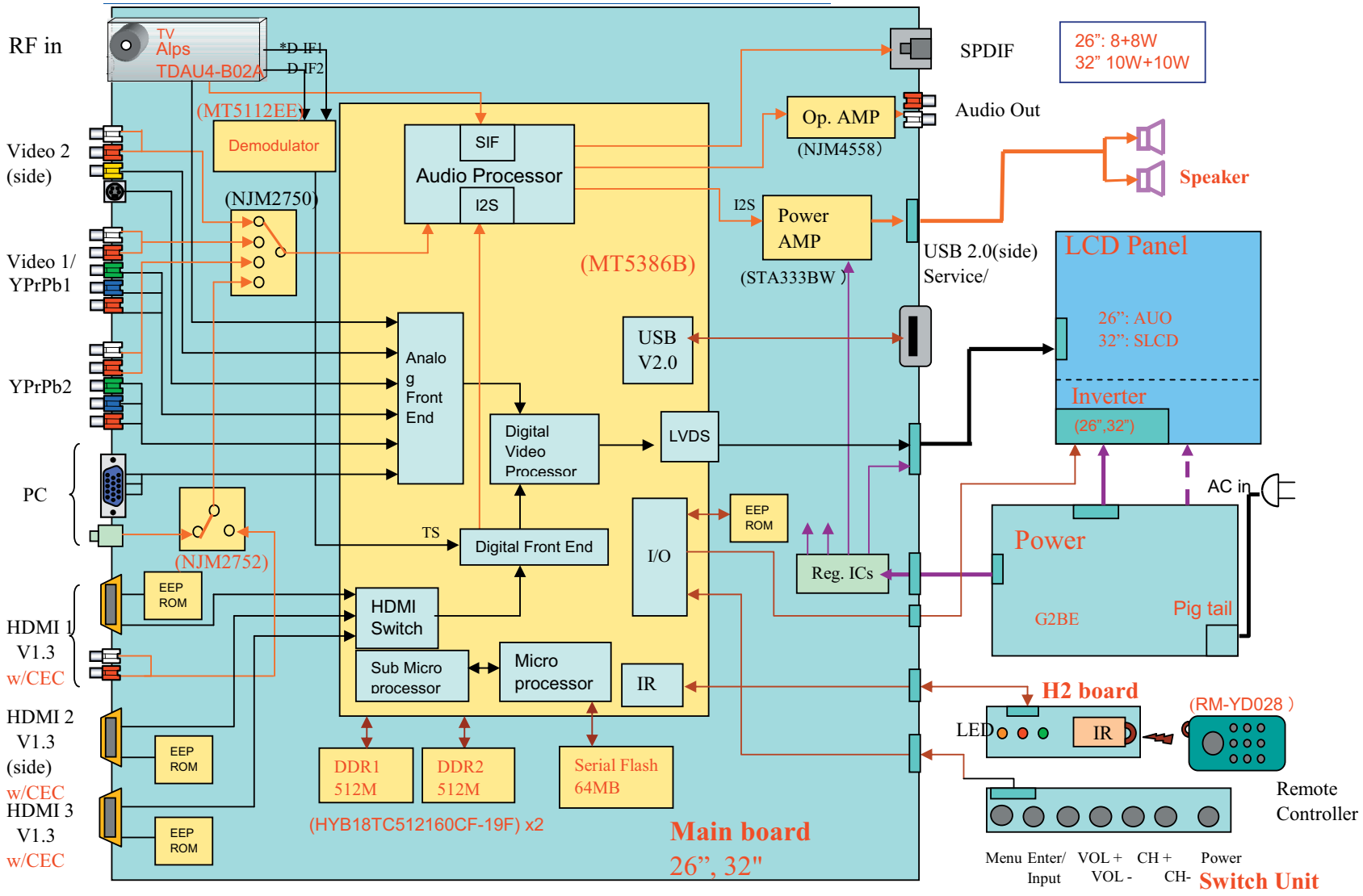
Terminal name of semiconductors in silk screen printed circuit (※)

	Device	Printed symbol	Terminal name	Circuit
1	Transistor		Collector Base Emitter	
2	Transistor		Collector Base Emitter	
3	Diode		Cathode Anode	
4	Diode		Cathode Anode (NC)	
5	Diode		Cathode Anode (NC)	
6	Diode		Common Anode Cathode	
7	Diode		Common Anode Cathode	
8	Diode		Common Anode Anode	
9	Diode		Common Anode Anode	
0	Diode		Common Cathode Cathode	
!¡	Diode		Common Cathode Cathode	
!™	Diode		Anode Cathode Anode Anode Cathode Anode	
!£	Transistor (FET)		Drain Source Gate	
!¢	Transistor (FET)		Drain Source Gate	
!?	Transistor (FET)		□ Source □ Drain □ Gate	
!§	Transistor		□ Emitter □ Collector □ Base	
!¶	Transistor		C2 B1 E1 E2 B2 C1	
!•	Transistor		C1 B2 E2 E1 B1 C2	
!ª	Transistor		C1 B2 E2 E1 B1 C2	
@º	Transistor		C1 B2 E2 E1 B1 C2	
@¡	Transistor		E2 B1 E1 C2 C1(B2)	
@™	Transistor		(B2) B1 E1 E2 C1 C2	
@£	Transistor		(B2) E2 E1 B1 C2 C1	
–	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

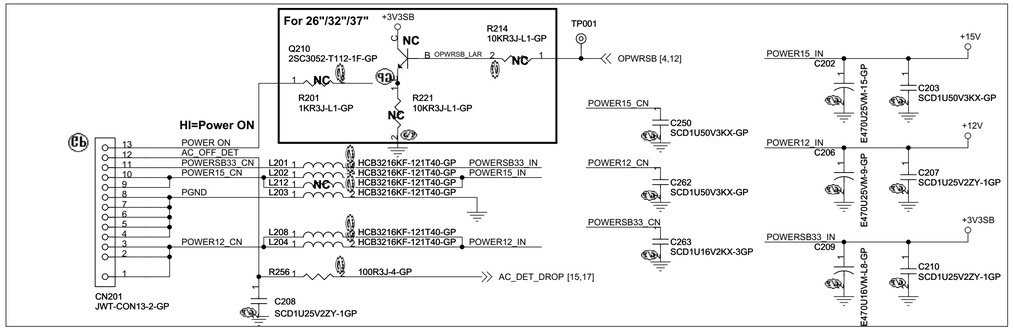
Ver.1.6

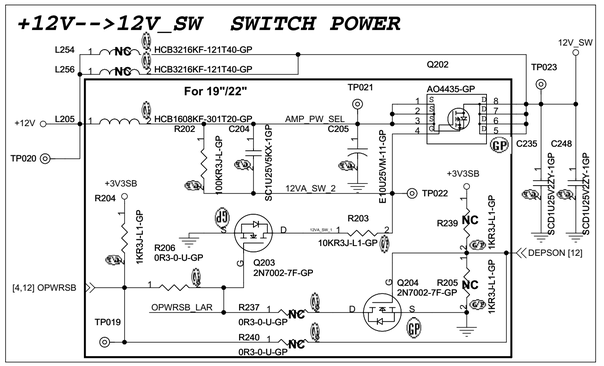
3-3. BLOCK DIAGRAM

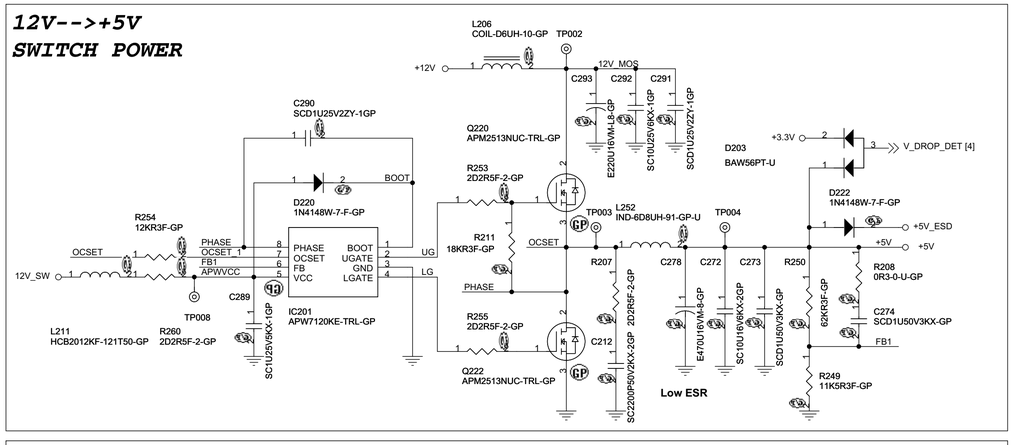


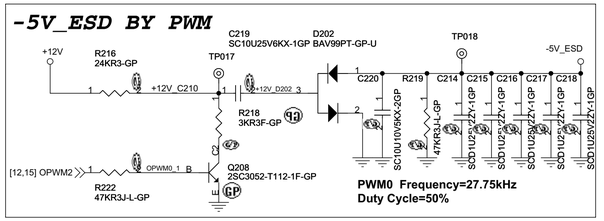
3-4. SCHEMATICS AND SUPPORTING INFORMATION

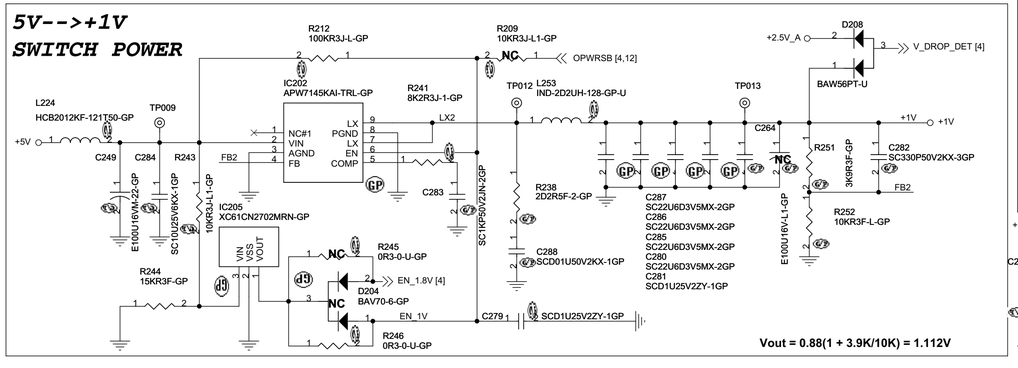
A BOARD SCHEMATIC DIAGRAM (1 OF 17)

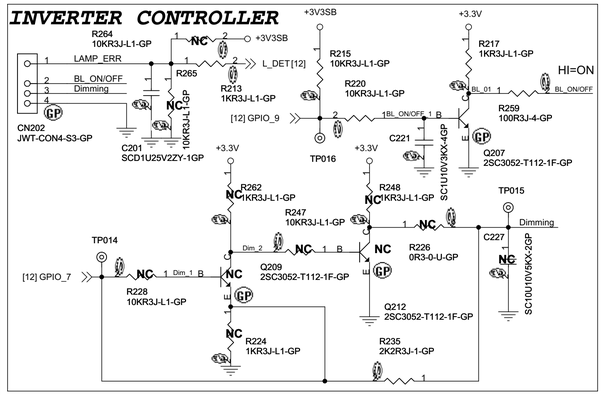


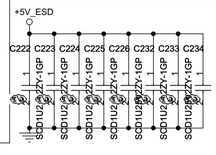








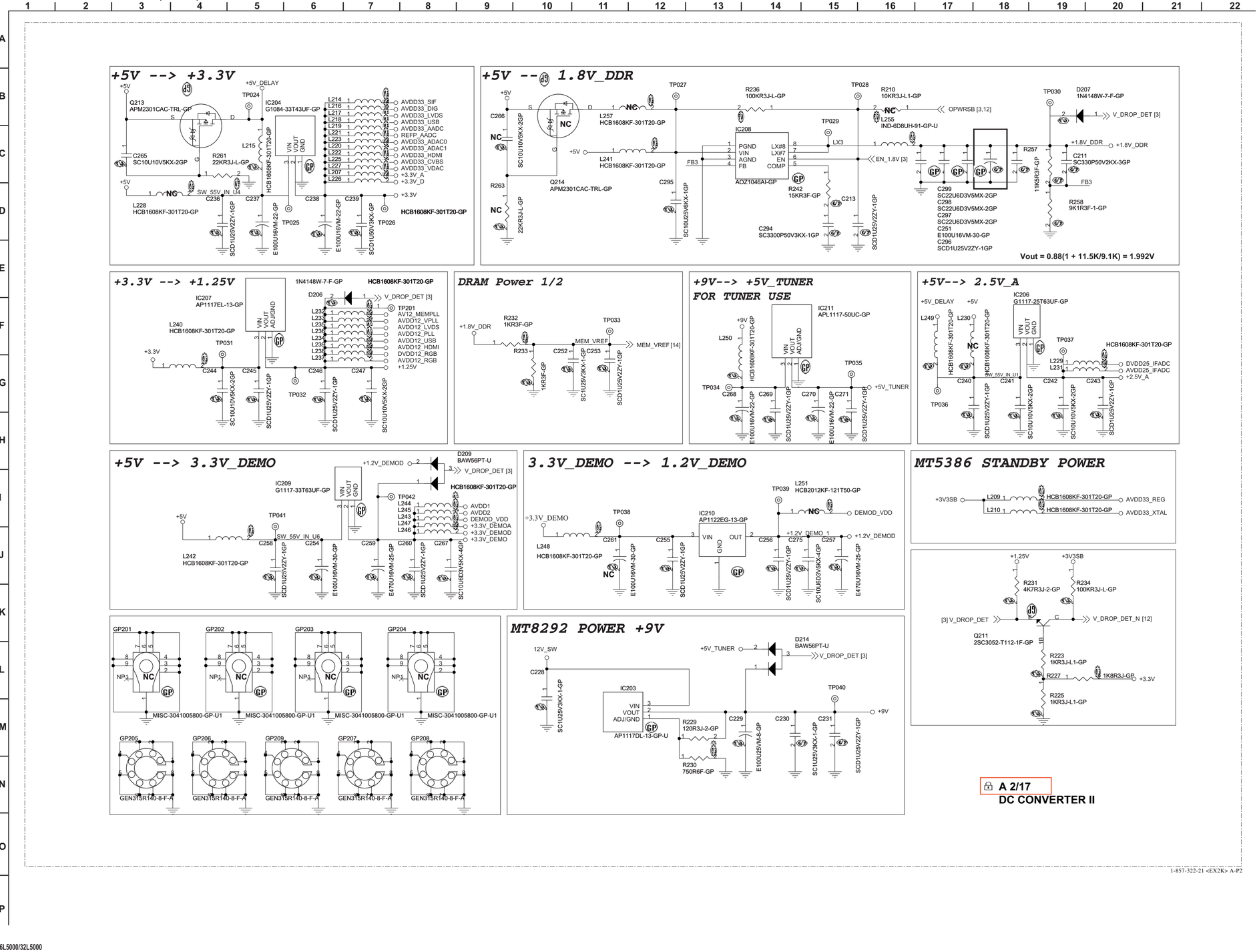




A 1/17
DC CONVERTER I

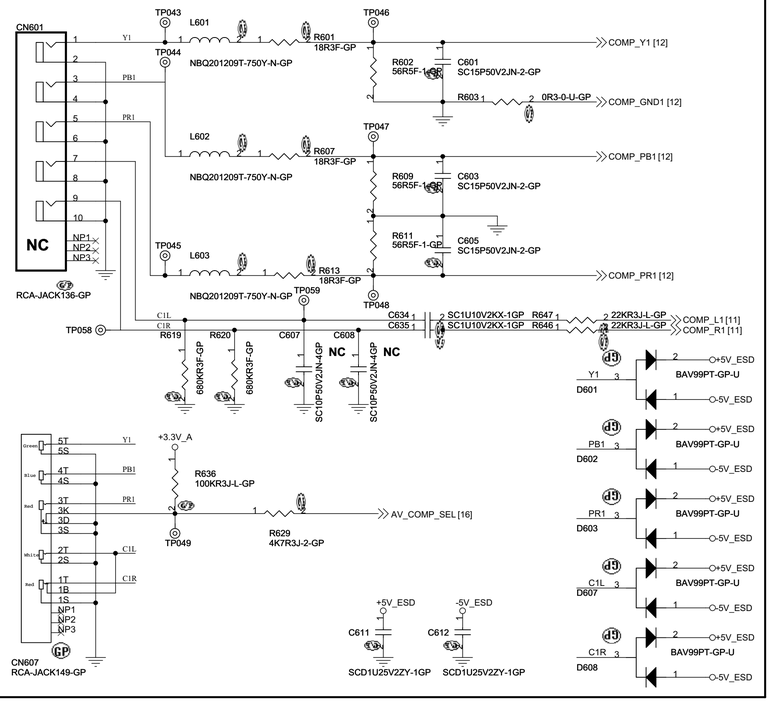
1-857-322-21 <EX2K> A-P1

A BOARD SCHEMATIC DIAGRAM (2 OF 17)

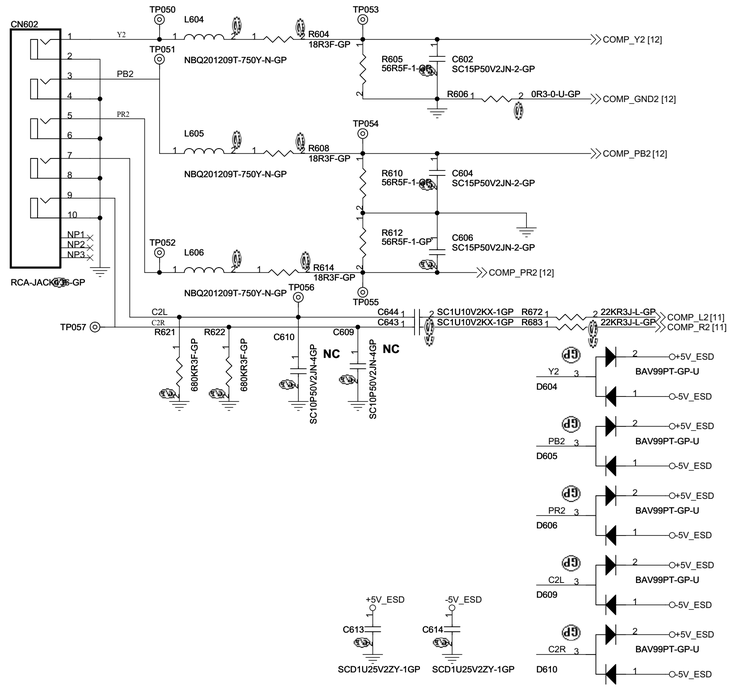


A BOARD SCHEMATIC DIAGRAM (3 OF 17)

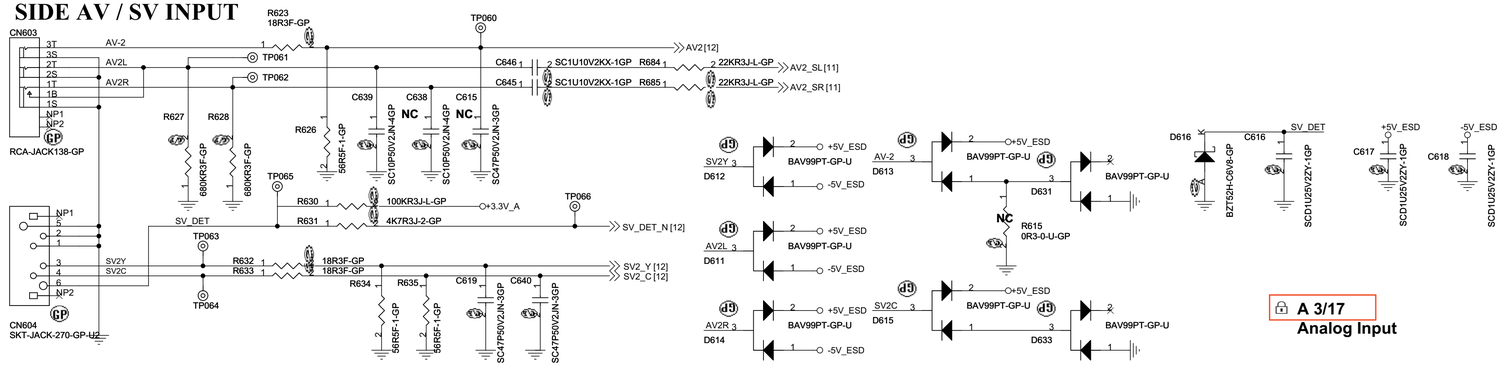
AV1 & COMPONENT 1 I/P



COMPONENT 2 I/P



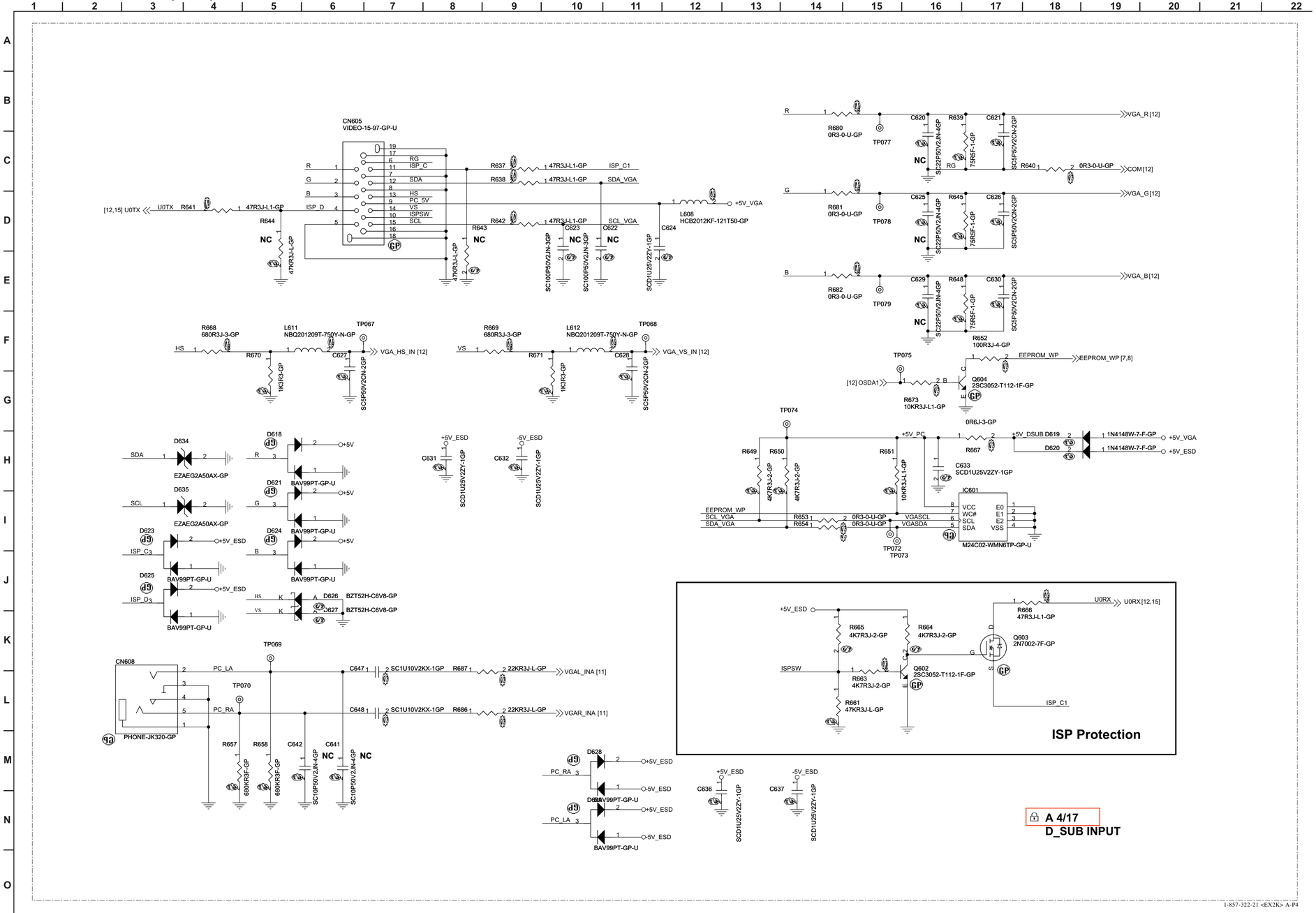
SIDE AV / SV INPUT



A 3/17
Analog Input

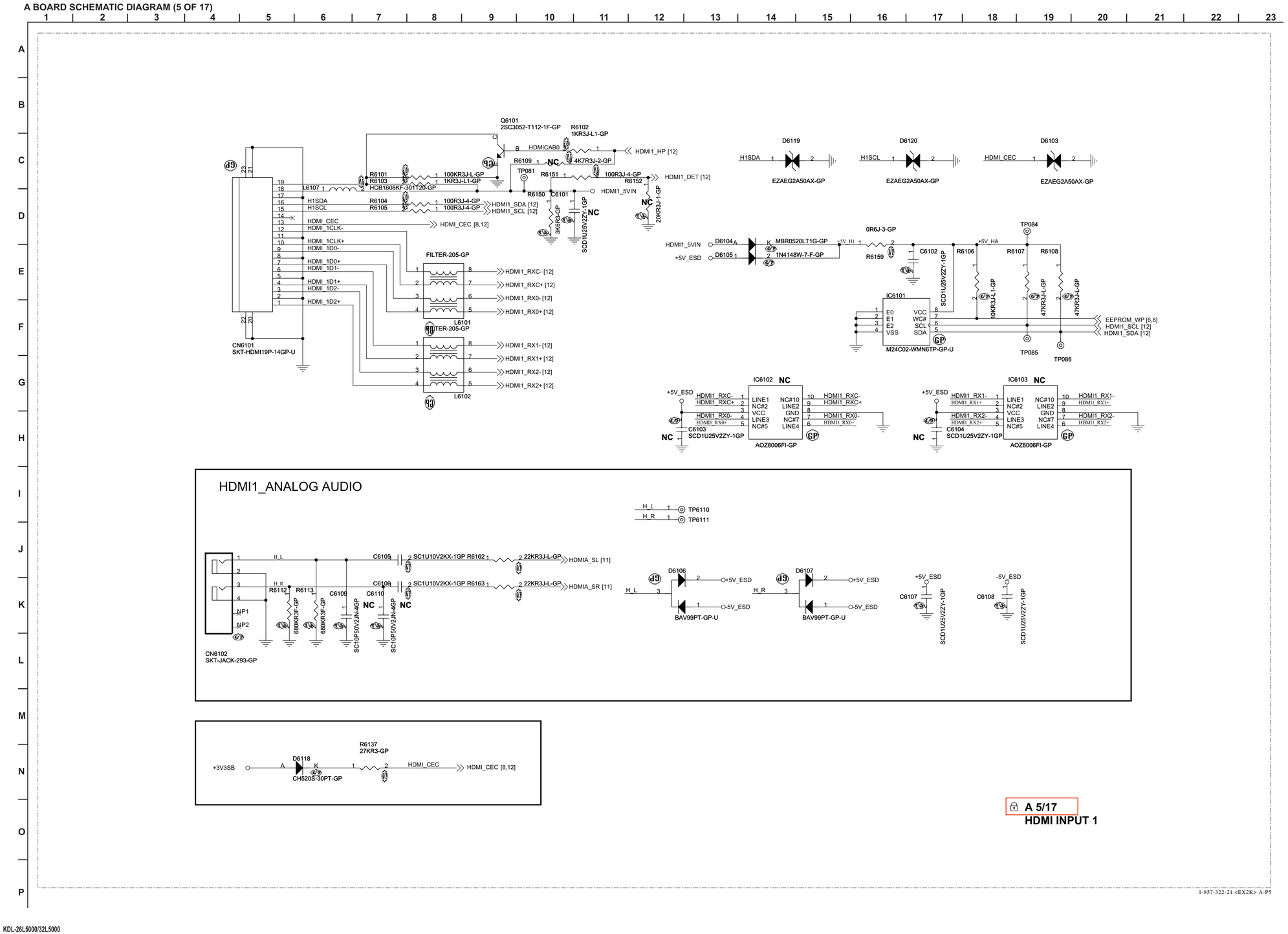
1-857-322-21 <EX2K> A-P3

A BOARD SCHEMATIC DIAGRAM (4 OF 17)



1-857-322-21 <EX2K> A-P4

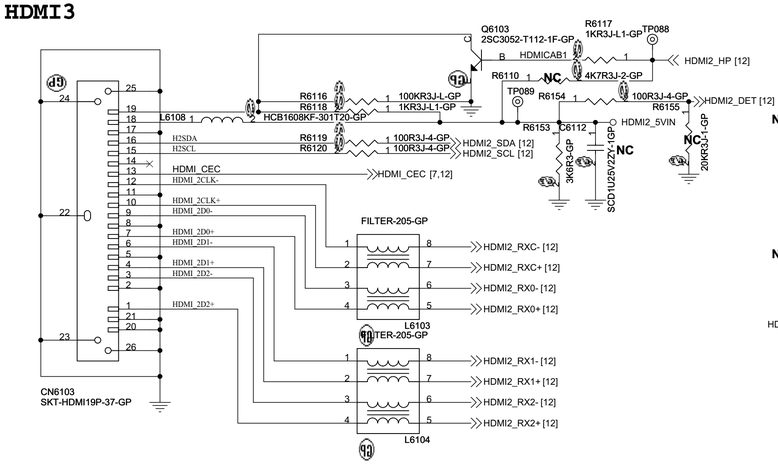
A BOARD SCHEMATIC DIAGRAM (5 OF 17)

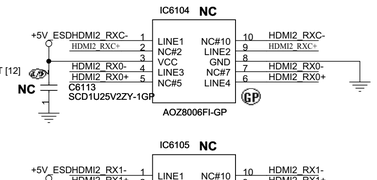


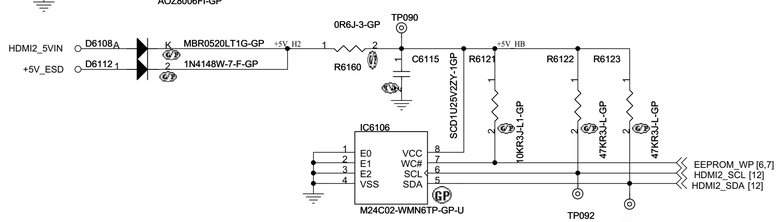
A 5/17
HDMI INPUT 1

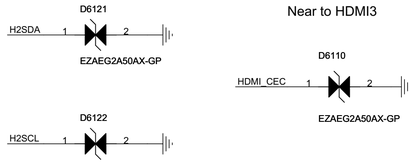
A BOARD SCHEMATIC DIAGRAM (6 OF 17)

HDMI3



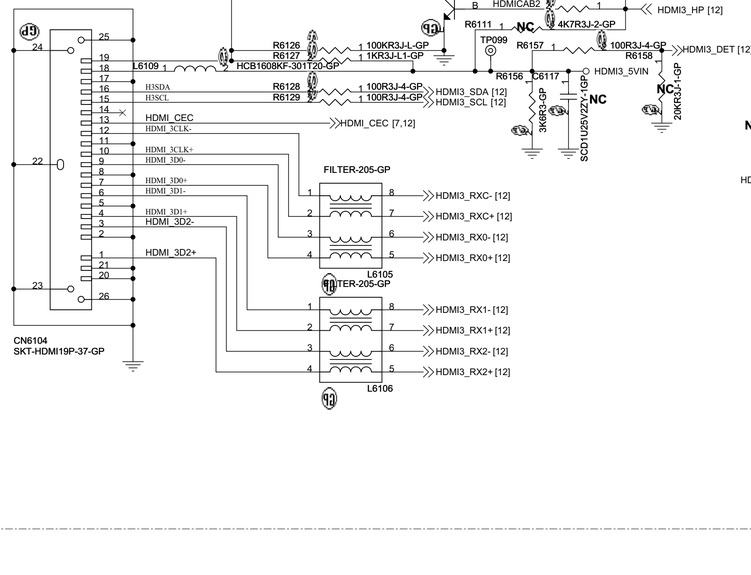


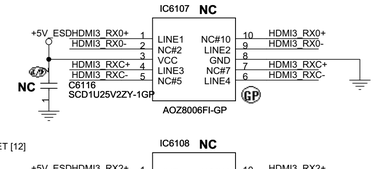


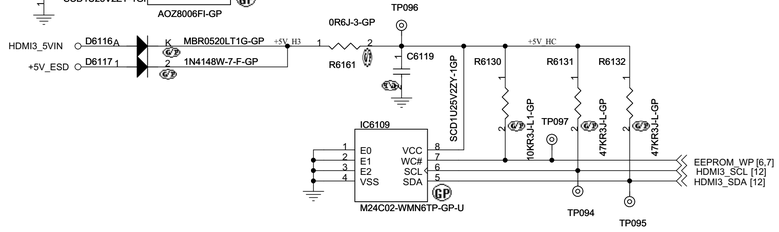


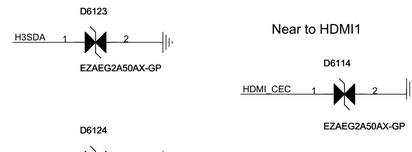
Near to HDMI3

HDMI1





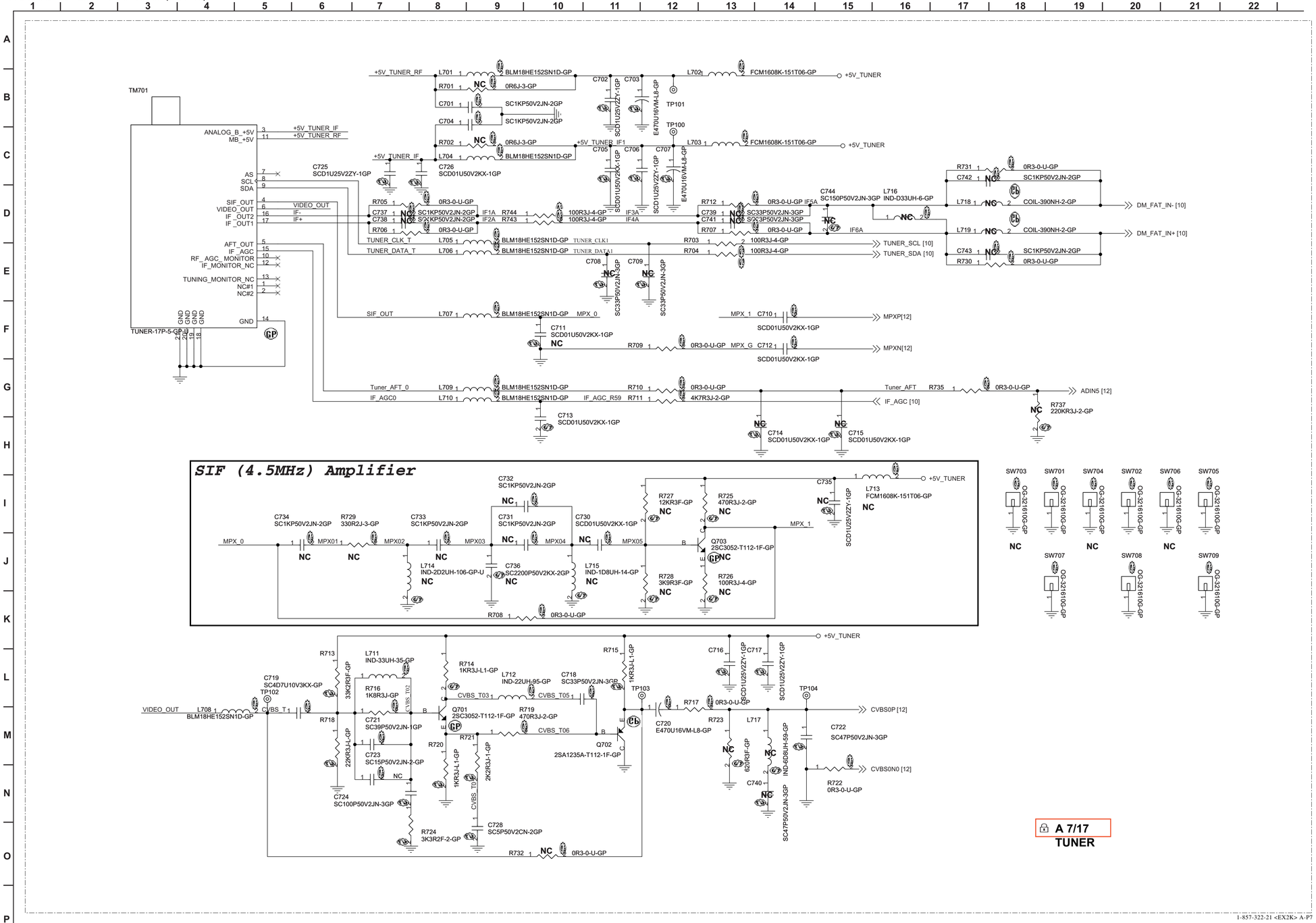




Near to HDMI1

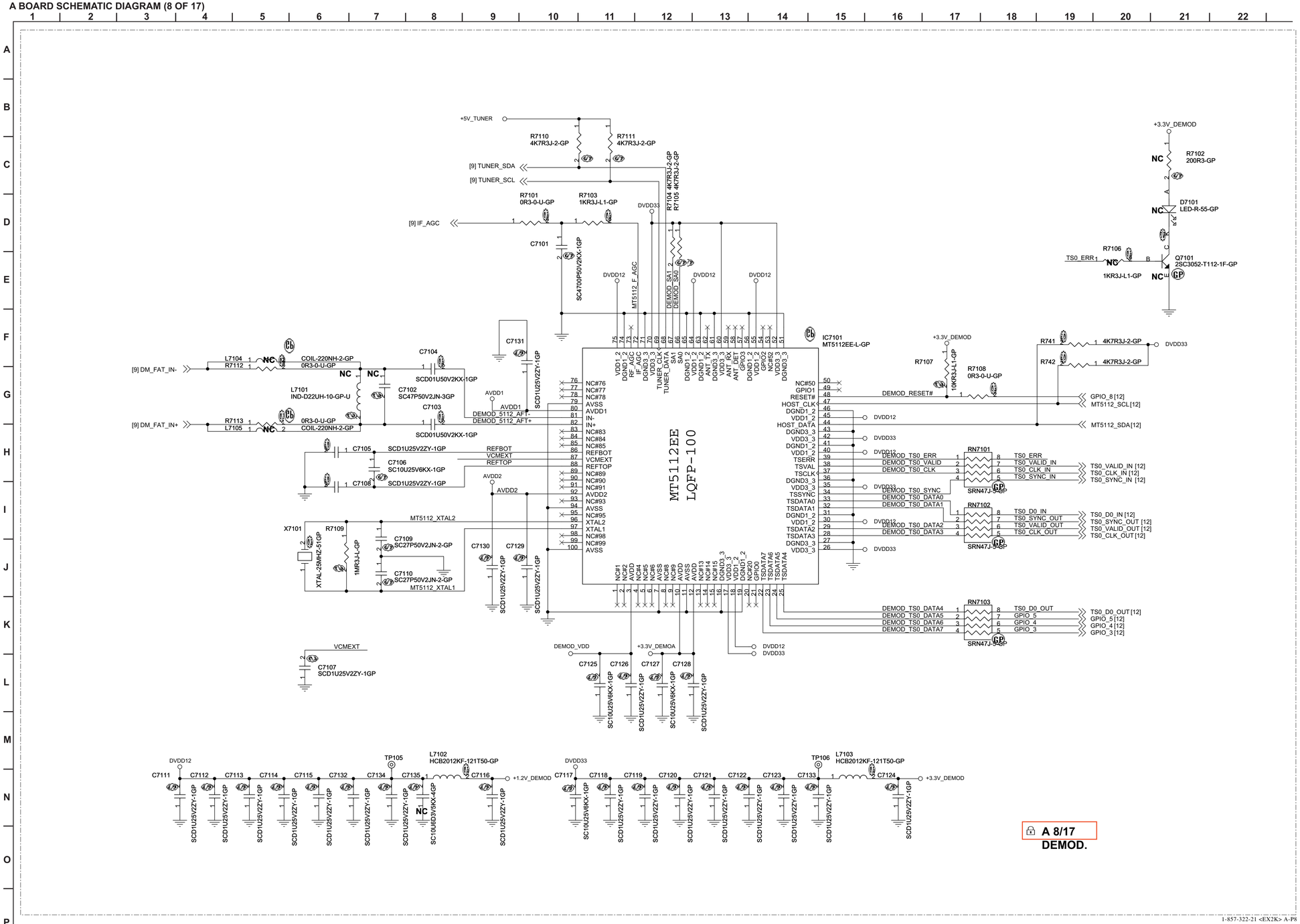
A 6/17
HDMI INPUT 2

A BOARD SCHEMATIC DIAGRAM (7 OF 17)

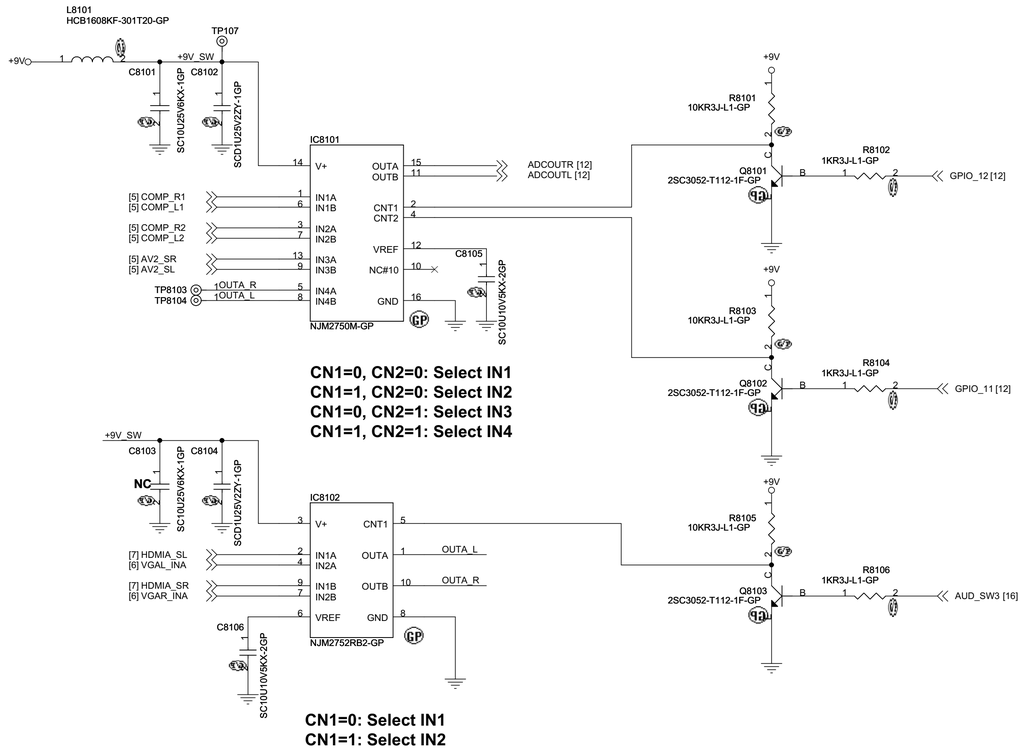


1-857-322-21 <EX2K> A-P7

A BOARD SCHEMATIC DIAGRAM (8 OF 17)

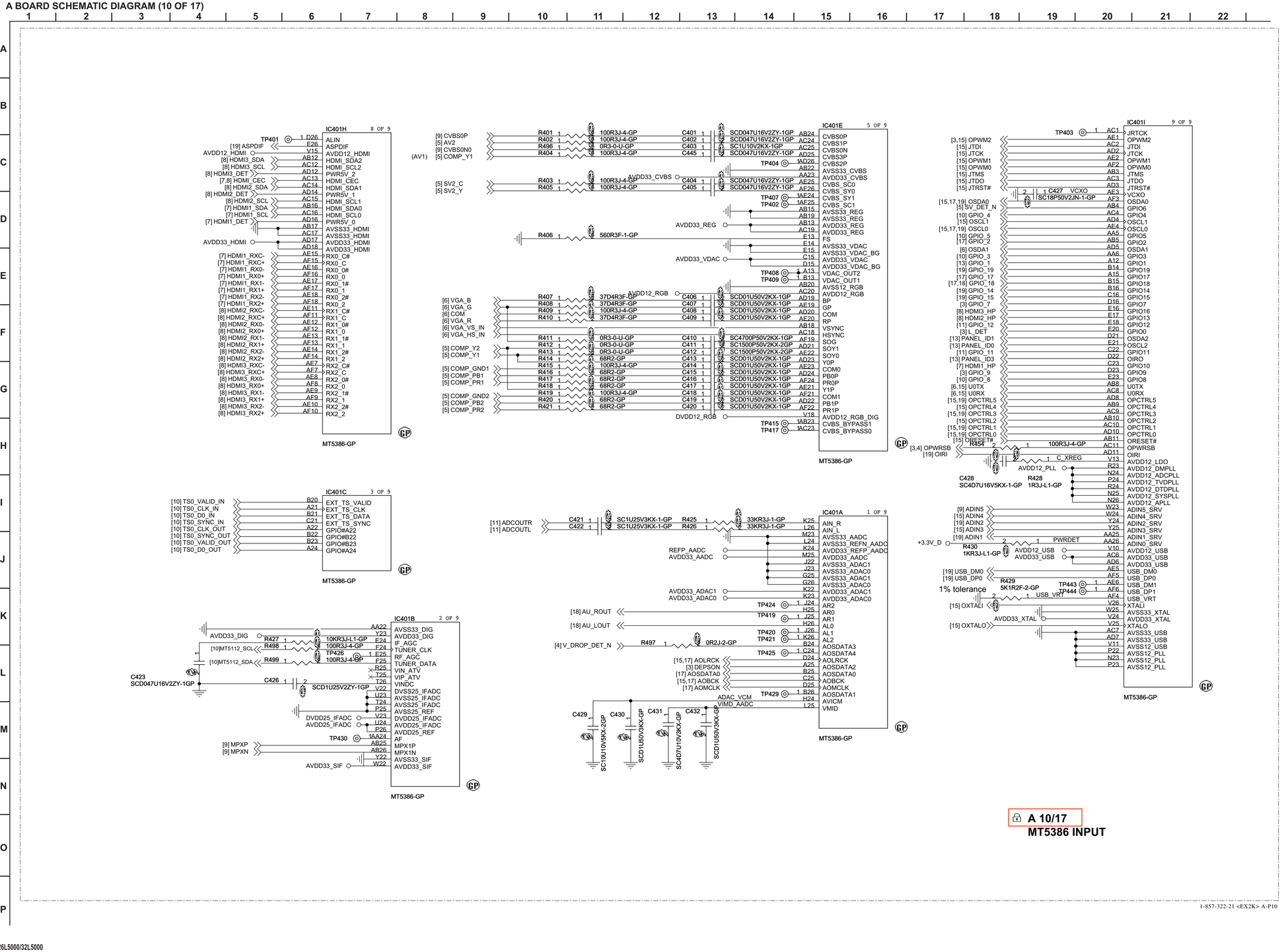


A BOARD SCHEMATIC DIAGRAM (9 OF 17)

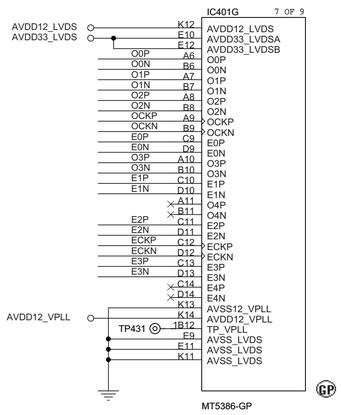


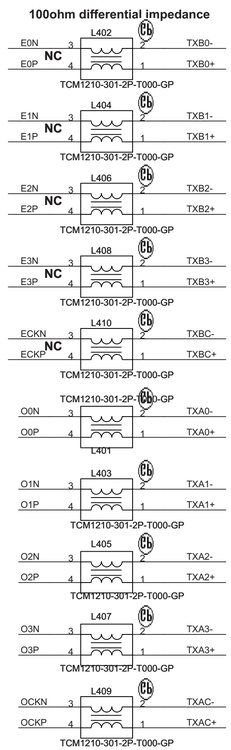
A 9/17
AUDIO PROCESSOR

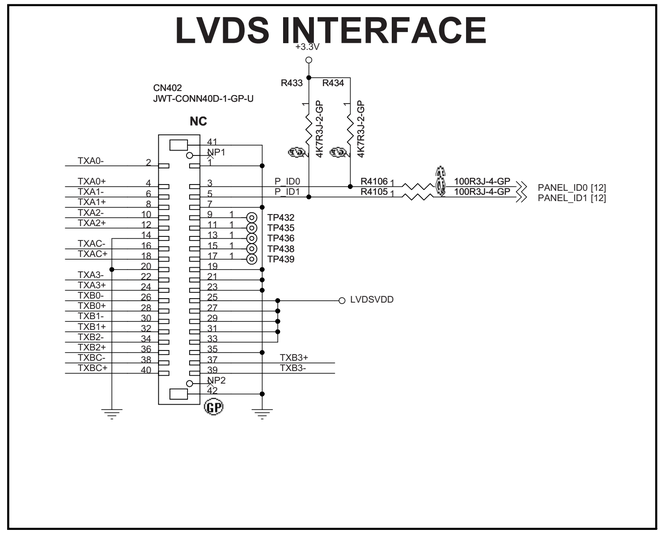
A BOARD SCHEMATIC DIAGRAM (10 OF 17)

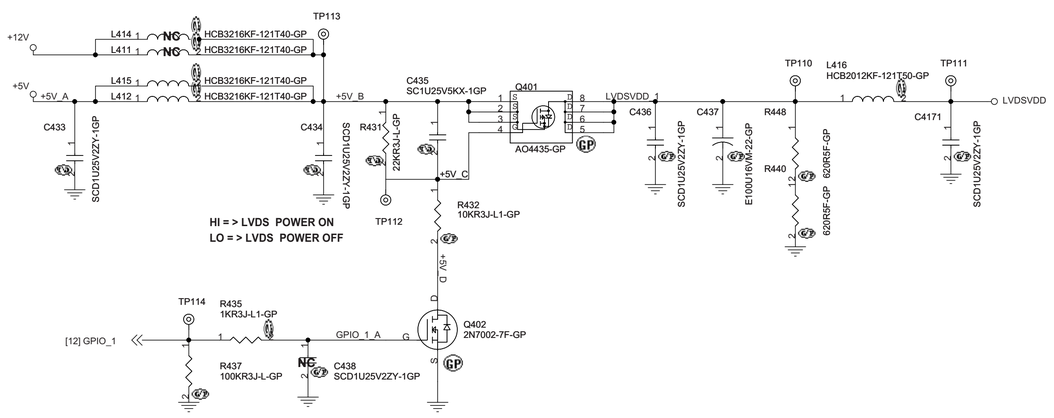


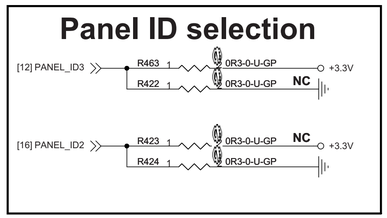
A BOARD SCHEMATIC DIAGRAM (11 OF 17)




100ohm differential impedance
L402 E0N E0P NC TXB0- TXB0+ TCM1210-301-2P-T000-GP
L404 E1N E1P NC TXB1- TXB1+ TCM1210-301-2P-T000-GP
L406 E2N E2P NC TXB2- TXB2+ TCM1210-301-2P-T000-GP
L408 E3N E3P NC TXB3- TXB3+ TCM1210-301-2P-T000-GP
L410 ECKN ECKP NC TXBC- TXBC+ TCM1210-301-2P-T000-GP
L401 O0N O0P TXA0- TXA0+ TCM1210-301-2P-T000-GP
L403 O1N O1P TXA1- TXA1+ TCM1210-301-2P-T000-GP
L405 O2N O2P TXA2- TXA2+ TCM1210-301-2P-T000-GP
L407 O3N O3P TXA3- TXA3+ TCM1210-301-2P-T000-GP
L409 OCKN OCKP TXAC- TXAC+ TCM1210-301-2P-T000-GP

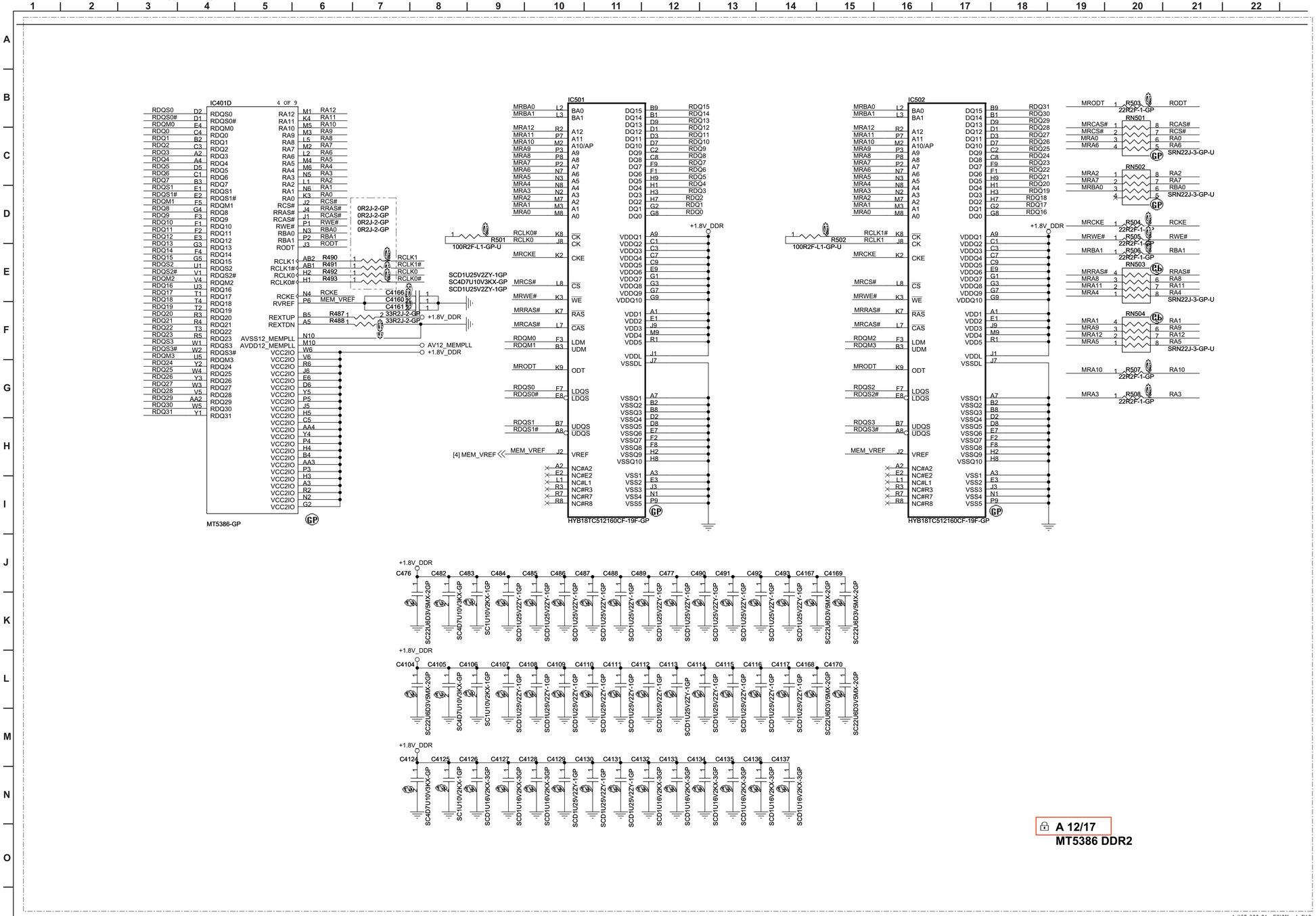






A 11/17
MT5386 LVDS

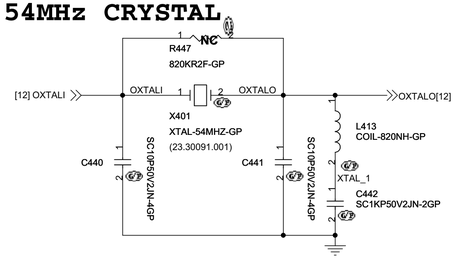
A BOARD SCHEMATIC DIAGRAM (12 OF 17)



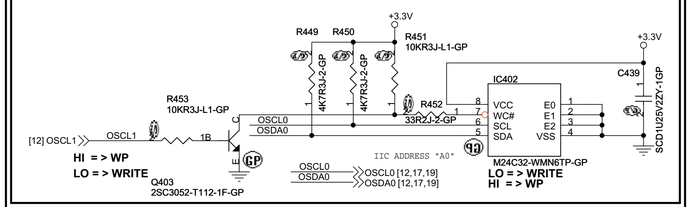
A 12/17
MT5386 DDR2

A BOARD SCHEMATIC DIAGRAM (13 OF 17)

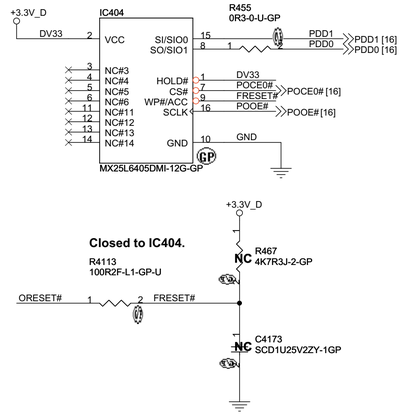
54MHz CRYSTAL



SYSTEM EEPROM

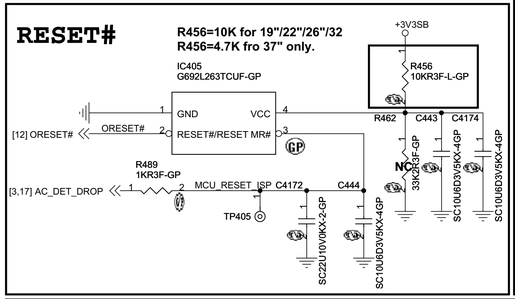


Serial Flash Dual-Layout - 8MB default

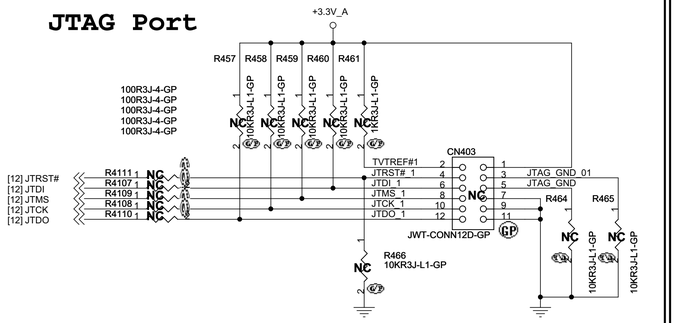


RESET#

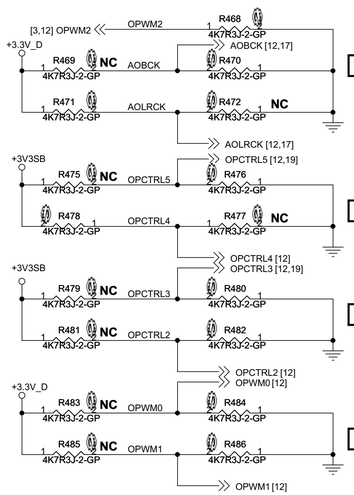
R456=10K for 19"/22"/26"/32
R456=4.7K fro 37" only.



JTAG Port



MT5386 STRAPPING MODE



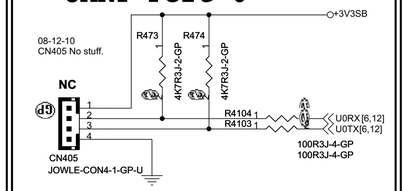
Strapping Mode	OPWM2	AOBCK	AOLRCK
Normal mode	0	0	0
ICE mode	0	0	1
CPU model mode	0	1	0

Trap Mode	OPCTRL5	OPCTRL4
Core Reset 1us	0	0
Core Reset 3.3V	0	1
SCAN mode	1	0
Core Reset 0.9V	1	1

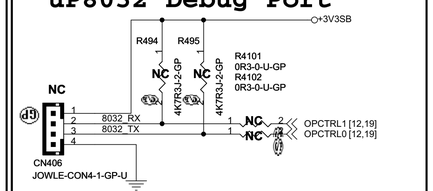
Strapping Mode	OPCTRL3(O)	OPCTRL2(O)
XTAL 54MHz	0	0
XTAL 60MHz	0	1
XTAL 27MHz	1	0
XTAL 30MHz	1	1

Strapping Mode	OPWM0(O)	OPWM1(O)
Nor Boot	0	0
NAND Boot	0	1
large NAND Boot	1	0

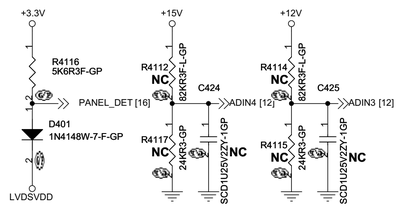
UART Port 0



uP8032 Debug Port



POWER DETECTION



A 13/17
MT5386 PERIPHERAL & FLASH

A BOARD SCHEMATIC DIAGRAM (14 OF 17)

IC401F
MT5386-GP
6 OF 9

+3.3V_D
+1V

SW401 SPRING-73-GP
SW402 SPRING-73-GP
SW403 SPRING-73-GP
SW404 SPRING-73-GP

[17] AC_DET
TP433 POCE#
TP434 PACLE
TP437 PALE
TP442 POWE#
PDD6
PDD7
POOE#
PARE#
PDD2
PDD5
PDD4
PDD3
PDD1
POCE1#
PDD0

+3.3V_D
PDD0 [15]
PDD1 [15]
RTC_3V3_SW [19]
PANEL_ID2 [13]
AV_COMP_SEL [5]
LED_G_PICOFF [19]
POOE# [15]
PANEL_DET [15]
AUD_SW3 [11]
POCE0# [15]

+1V
C454 SC4D7U10V3KX-GP
C455 SC1U10V2KX-1GP
C456 SCD1U16V2KX-3GP
C457 SCD1U16V2KX-3GP
C458 SCD1U16V2KX-3GP
C459 SCD1U16V2KX-3GP
C460 SCD1U16V2KX-3GP
C461 SCD1U16V2KX-3GP
C462 SCD1U16V2KX-3GP
C463 SCD1U16V2KX-3GP
C464 SCD1U16V2KX-3GP
C465 SCD1U16V2KX-3GP
C466 SCD1U16V2KX-3GP
C467 SCD1U16V2KX-3GP
C468 SCD1U16V2KX-3GP
C469 SCD1U16V2KX-3GP
C470 SCD1U16V2KX-3GP
C471 SCD1U16V2KX-3GP

C4122 SC1U10V3KX-4GP
C4123 SCD1U16V2KX-3GP
AVDD12_HDMI

C472 SC1U10V2KX-1GP
C473 SCD1U25V2ZY-1GP
AVDD33_HDMI

C480 SC1U25V3KX-1-GP
C481 SCD1U16V2KX-3GP
AVDD33_AADC

C446 SC1U10V3KX-4GP
C447 SCD1U16V2KX-3GP
DVDD25_IFADC

C4144 SC4D7U10V3KX-GP
C4145 SC1U25V2ZY-1GP
C4146 SCD1U16V2KX-3GP
C4147 SCD1U25V2ZY-1GP
C4148 SCD1U16V2KX-3GP
C4149 SC1U10V3KX-4GP
+3.3V_D

C4154 SC4D7U10V3KX-GP
C4155 SCD1U50V2KX-1GP
C4156 SCD1U25V2ZY-1GP
C4157 SC3300P50V2KX-1GP
C4158 SCD1U25V2ZY-1GP
C4159 SC3300P50V2KX-1GP
AVDD12_PLL

C494 SC10U6D3V5KX-4GP
C495 SCD1U16V2KX-3GP
C496 SCD1U16V2KX-3GP
AVDD12_LVDS

C4100 SC10U6D3V5KX-4GP
C497 SCD1U16V2KX-3GP
C498 SCD1U16V2KX-3GP
AVDD12_VPLL

C4142 SC1U10V2KX-1GP
C4143 SCD1U25V2ZY-1GP
AVDD33_XTAL

C478 SC1U10V2KX-1GP
C479 SCD1U25V2ZY-1GP
AVDD33_REG

C4102 SC1U25V3KX-1-GP
C4103 SCD1U16V2KX-3GP
REFP_AADC

C448 SC1U10V2KX-1GP
C449 SCD1U25V2ZY-1GP
AVDD33_DIG

C4152 SC1U10V2KX-1GP
C4153 SCD1U25V2ZY-1GP
AVDD25_IFADC

C499 SC1U10V2KX-1GP
C4101 SCD1U25V2ZY-1GP
AVDD12_RGB

C4120 SC1U25V3KX-1-GP
C4121 SCD1U16V2KX-3GP
AVDD33_ADAC0

C450 SC1U10V2KX-1GP
C451 SCD1U25V2ZY-1GP
AVDD33_SIF

C4140 SC1U25V3KX-1-GP
C4141 SCD1U16V2KX-3GP
AVDD33_ADAC1

C4118 SC1U10V3KX-4GP
C4119 SCD1U16V2KX-3GP
DVDD12_RGB

C452 SC4D7U16V5KX-1-GP
C453 SCD1U16V2KX-3GP
AVDD33_LVDS

C474 SC10U6D3V5KX-4GP
C475 SCD1U16V2KX-3GP
AV12_MEMPLL

C4162 SC4D7U16V5KX-1-GP
C4163 SCD1U16V2KX-3GP
AVDD12_USB

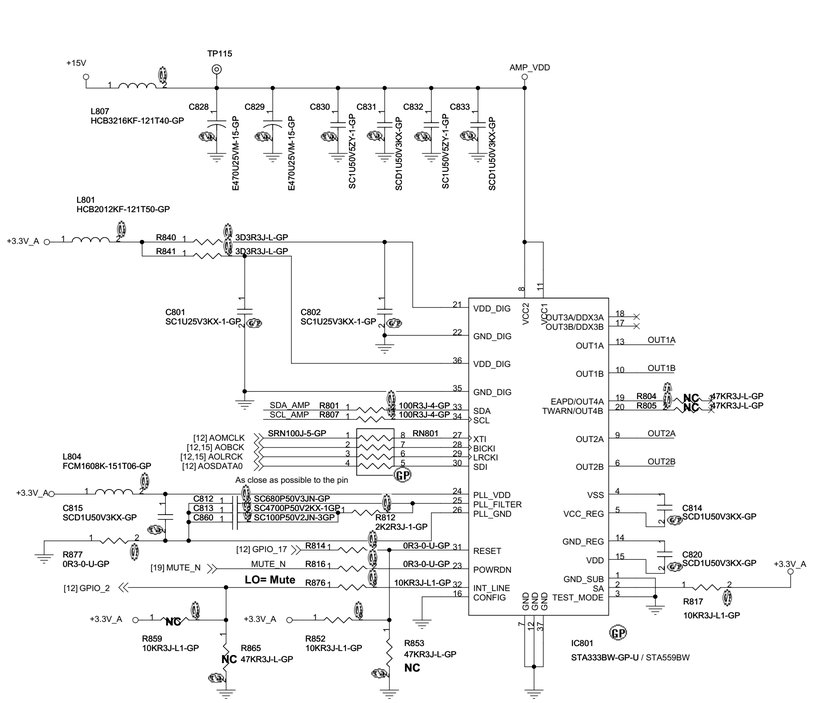
C4135 SC1U10V2KX-1GP
C4139 SCD1U25V2ZY-1GP
AVDD33_CVBS

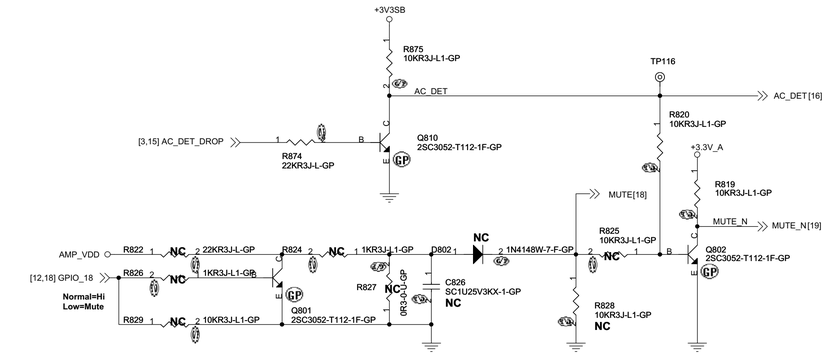
C4164 SC4D7U16V5KX-1-GP
C4165 SCD1U25V2ZY-1GP
AVDD33_USB

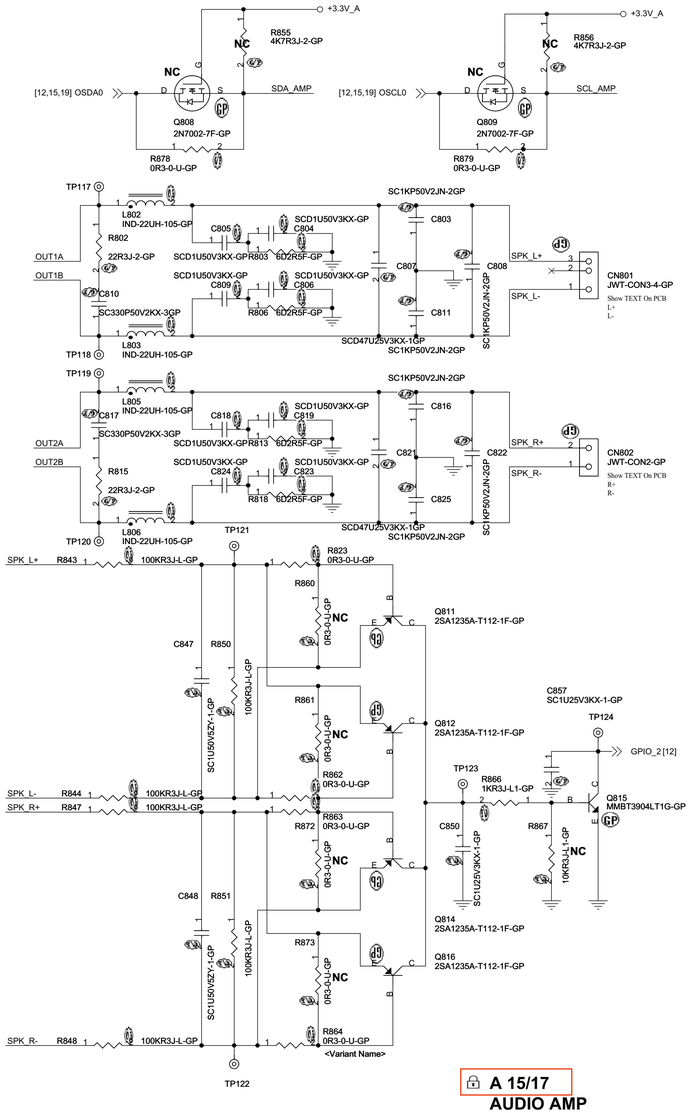
C4150 SC1U10V3KX-4GP
C4151 SCD1U16V2KX-3GP
AVDD33_VDAC

A 14/17
MT5386 POWER

A BOARD SCHEMATIC DIAGRAM (15 OF 17)







A 15/17
AUDIO AMP

1-857-322-21 <EX2K> A-P15

A BOARD SCHEMATIC DIAGRAM (16 OF 17)

AUDIO OUTPUT STAGE & MUTE CONTROL

TP125
R832 100KR3J-L-GP
C834 NC
C835 NC SC330P50V2KX-3GP
C836 NC SC1U50V2ZY-1-GP
SCD1U50V3KX-GP
C837 SC10U25V6KX-1GP
L809 HCB2012KF-121T50-GP
+15V
TP126
R835 100KR3J-L-GP
NJM_P
C842 SC10U25V6KX-1GP

+5V_ESD
C838 SCD1U25V2ZY-1GP
-5V_ESD
C839 SCD1U25V2ZY-1GP

D805
A_L
+5V_ESD
-5V_ESD
BAV99PT-GP-U
D806
A_R
+5V_ESD
-5V_ESD
BAV99PT-GP-U

LOUT
R833 0R3-0-U-GP
A_L
ROUT
R834 0R3-0-U-GP
A_R
C840 NC
C841 NC SC100P50V2JN-3GP
SC100P50V2JN-3GP
TP128
TP129
CN803 SKT-JACK-293-GP
NP1
NP2

R836 0R3-0-U-GP
R837 0R3-0-U-GP
MUTE_1
Q803 DDTA144VCA-7-F-GP
Q804 DTC144EKA-1-GP
+3V3SB
OUT
GND
IN
MUTE
TP127
MUTE[17]

Please close to the CN406

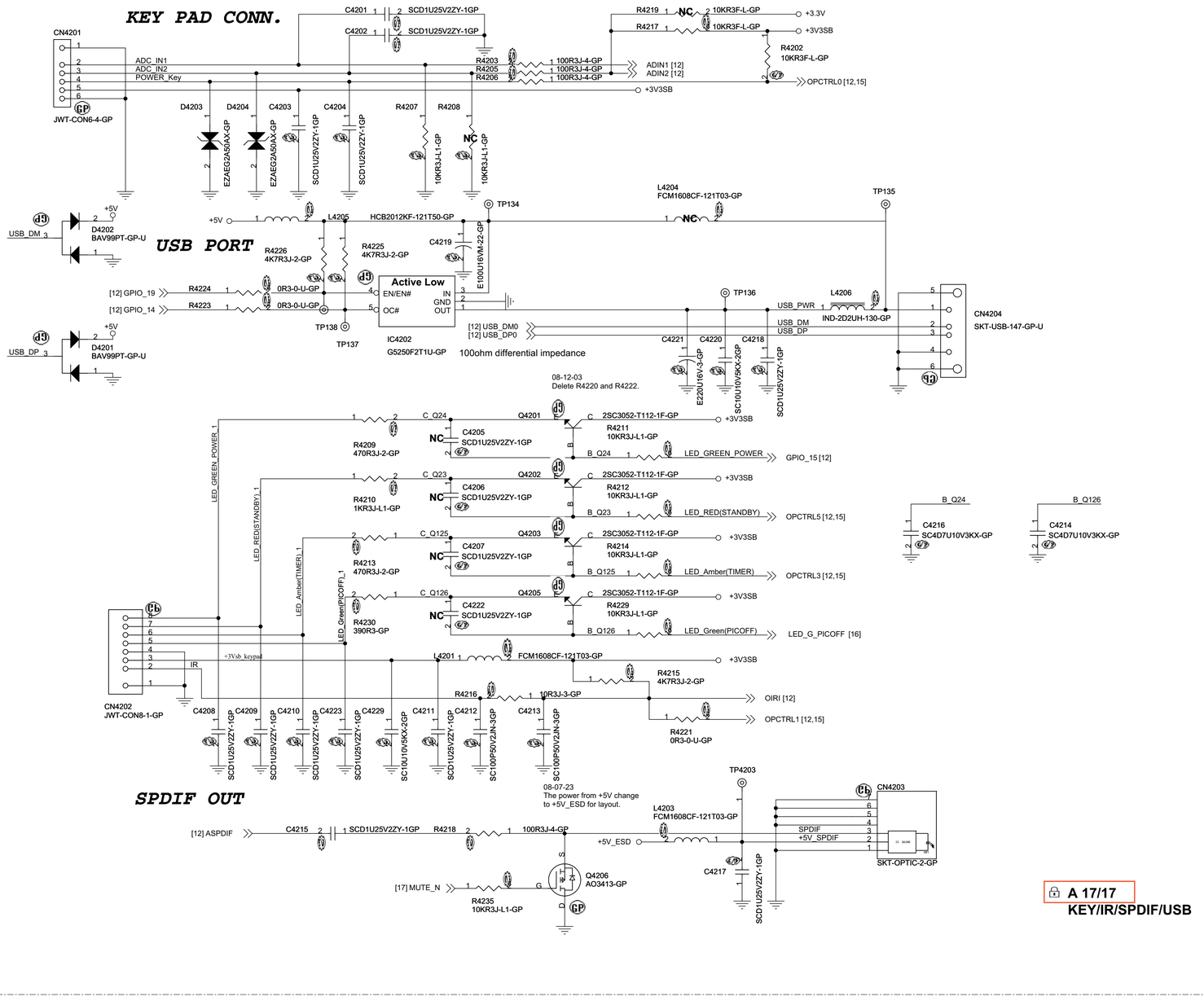
+3V3SB
R854 1KR3J-L1-GP
D808 1N4148W-7-F-GP
[17] MUTE
R830 10KR3J-L1-GP
Q807 2SC3052-T112-1F-GP
GPIO_18 [12,17]

C858 SC100P50V2JN-3GP
R838 47KR3J-L-GP
TP132
AMP_VDD
C843 SCD1U50V3KX-GP
LOUT_3
C845 SC4D7U25V5KX-GP
TP130
R839 100R3J-4-GP
[12] AU_LOUT
C846 SC3300P50V2KX-1GP
C844 SC4D7U16V5KX-1-GP
LOUT_1
R871 10KR3J-L1-GP
NJM_P
LOUT_2
IC802B NJM4558M-GP
LOUT_4
R869 470KR3J-L-GP
R842 470R3J-2-GP
LOUT
R845 10KR3J-L1-GP
C854 SC100P50V2JN-3GP
Q805 2SC5938B-GP
MUTE_1
C849 SCD01U50V2KX-1GP

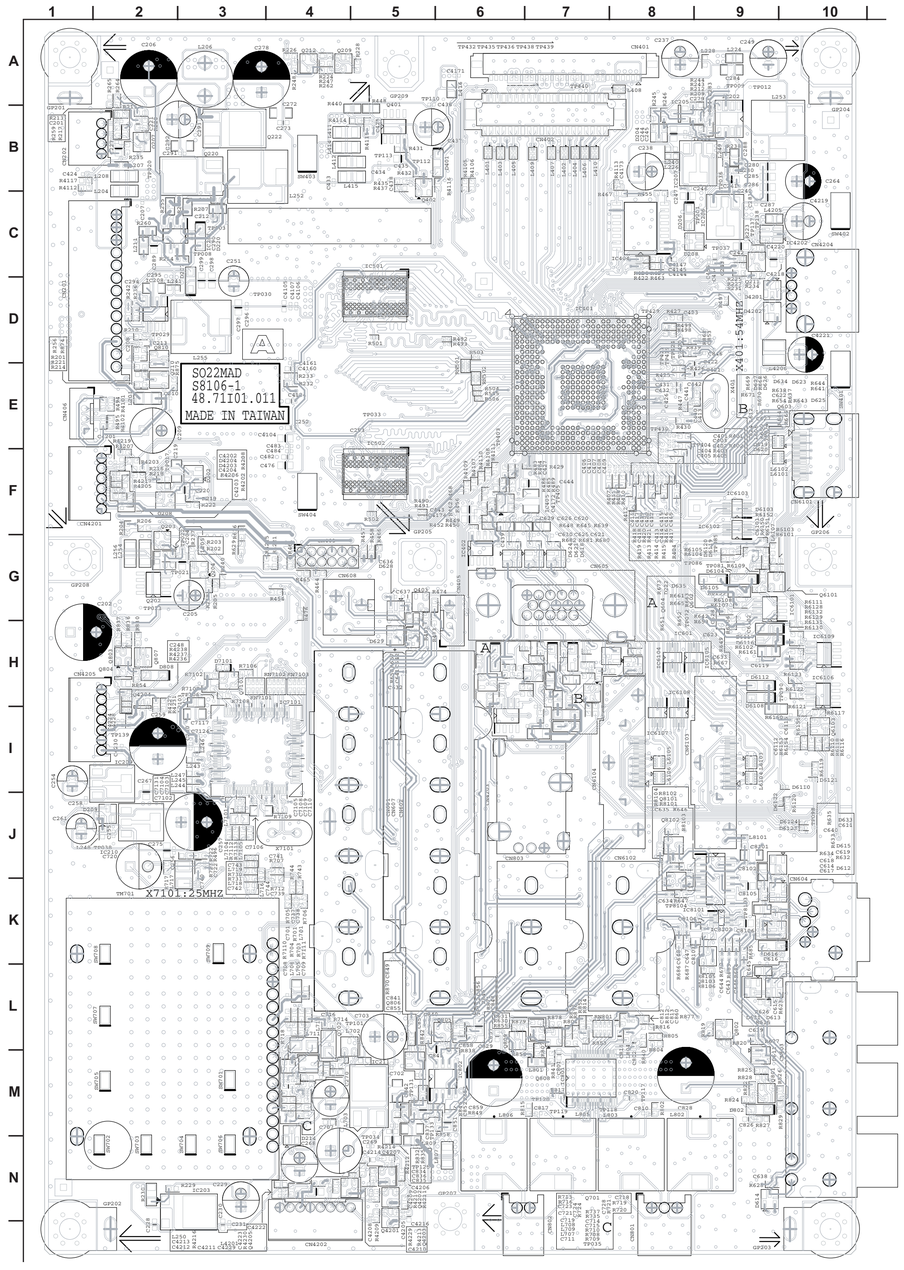
C859 SC100P50V2JN-3GP
R849 47KR3J-L-GP
TP133
AMP_VDD
ROUT_3
C852 SC4D7U25V5KX-GP
TP131
R868 100R3J-4-GP
[12] AU_ROUT
C853 SC3300P50V2KX-1GP
C851 SC4D7U16V5KX-1-GP
ROUT_1
R858 10KR3J-L1-GP
NJM_P
ROUT_2
IC802A NJM4558M-GP
ROUT_4
R846 470KR3J-L-GP
R857 470R3J-2-GP
ROUT
R870 10KR3J-L1-GP
C855 SC100P50V2JN-3GP
Q806 2SC5938B-GP
MUTE_1
C856 SCD01U50V2KX-1GP

A 16/17
LINE OUT

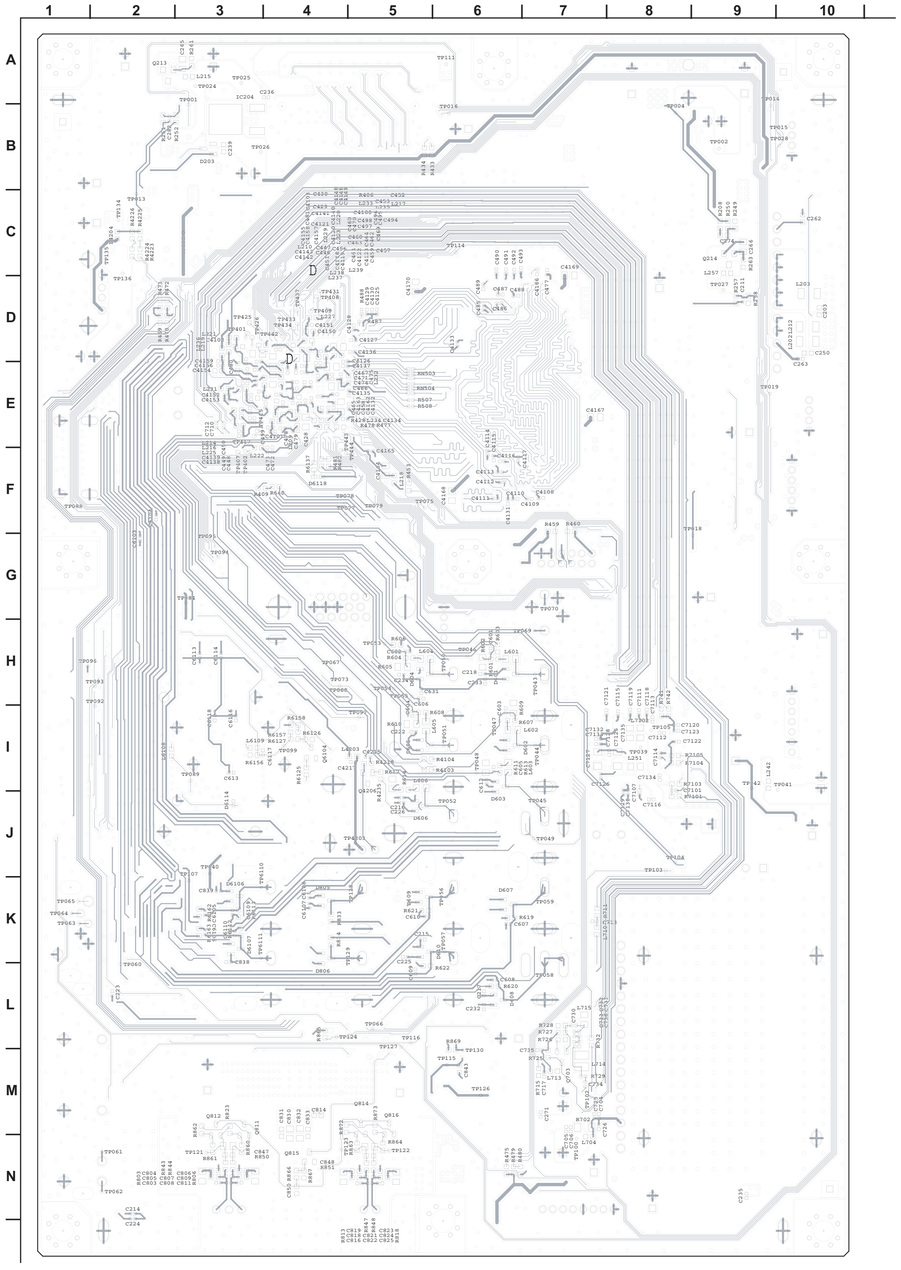
A BOARD SCHEMATIC DIAGRAM (17 OF 17)



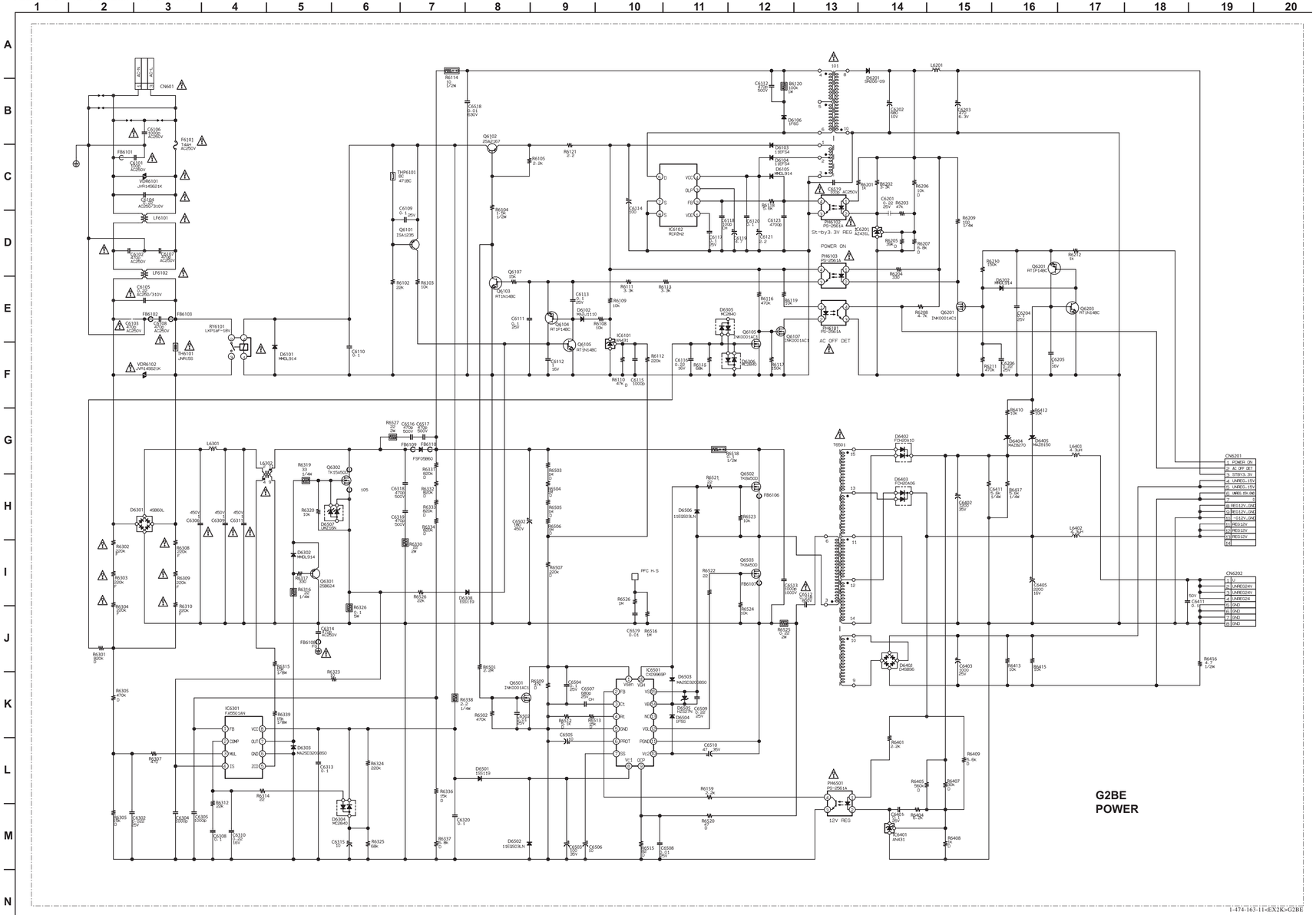
A [DC CONVERTER; DC CONVERTER II; ANALOG INPUT; HDMI INPUT-1; HDMI INPUT-2; TUNER; MT5386 LVDS; MT5386 PERIPHERAL & FLASH; MT5386 INPUT; MT5386 DDR2; MT5386 POWER; AUDIO AMP; D_SUB INPUT; I2C BLOCK DIAGRAM; POWER ON & RESET; DEMODULATOR MT5112EE; AUDIO PROCESSER; LINE OUT; KEY /IR /SPDIF /USB]
COMPONENT SIDE



A [DC CONVERTER; DC CONVERTER II; ANALOG INPUT; HDMI INPUT-1; HDMI INPUT-2; TUNER; MT5386 LVDS; MT5386 PERIPHERAL & FLASH; MT5386 INPUT; MT5386 DDR2; MT5386 POWER; AUDIO AMP; D_SUB INPUT; I2C BLOCK DIAGRAM; POWER ON & RESET; DEMODULATOR MT5112EE; AUDIO PROCESSER; LINE OUT; KEY /IR /SPDIF /USB]
CONDUCTOR SIDE

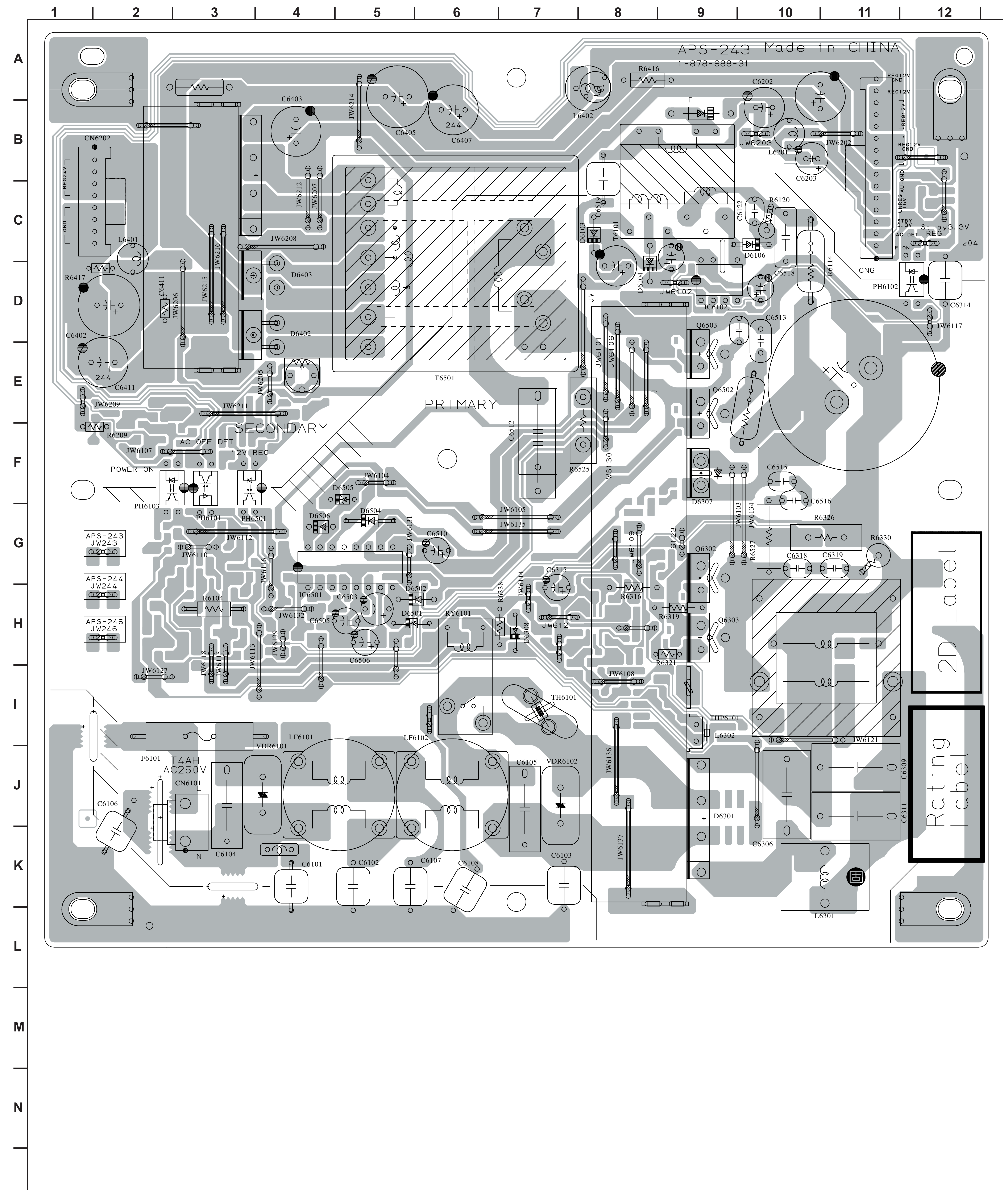


G2BE BOARD SCHEMATIC DIAGRAM

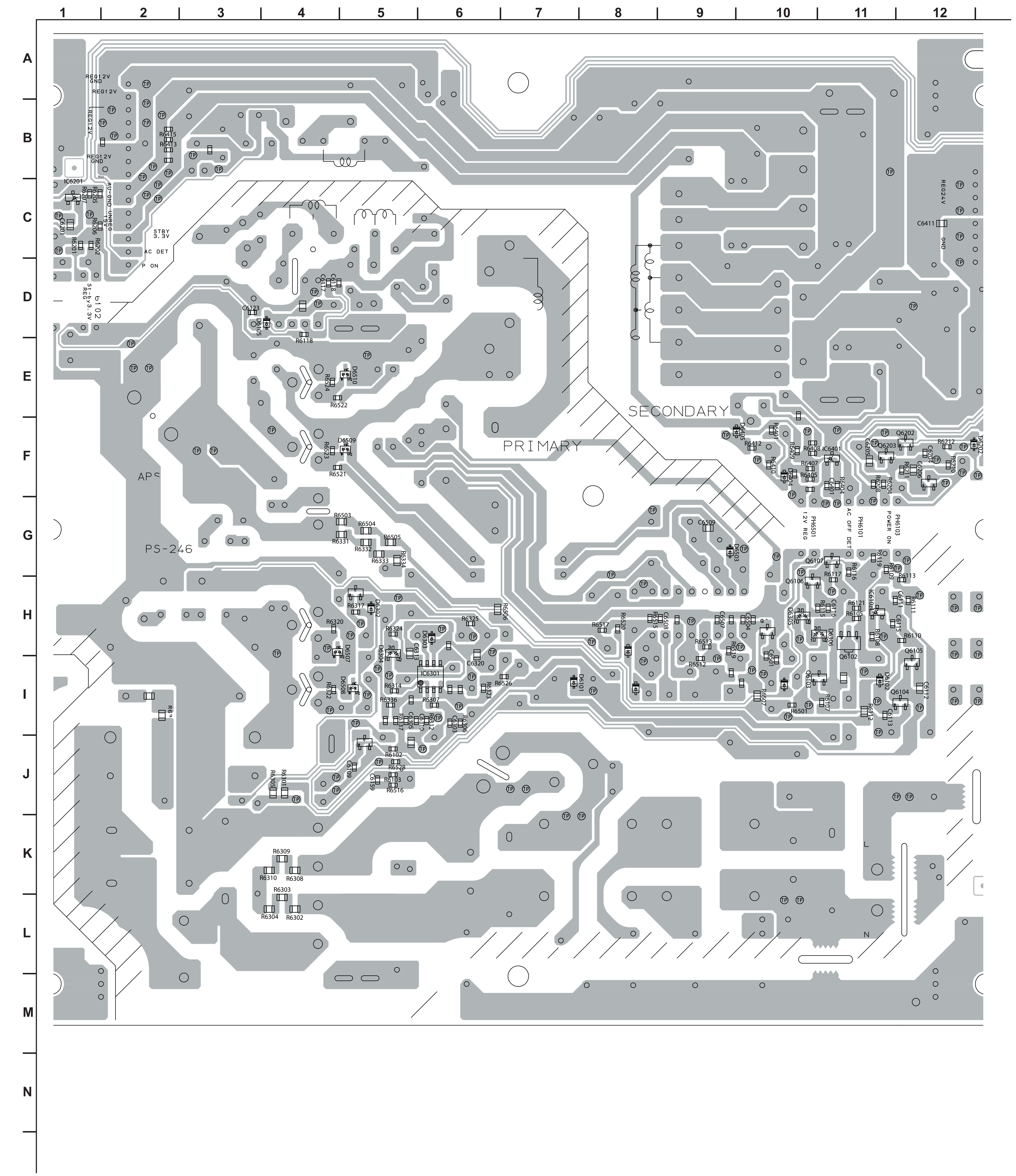


1-474-163-11<EX2K>G2BE

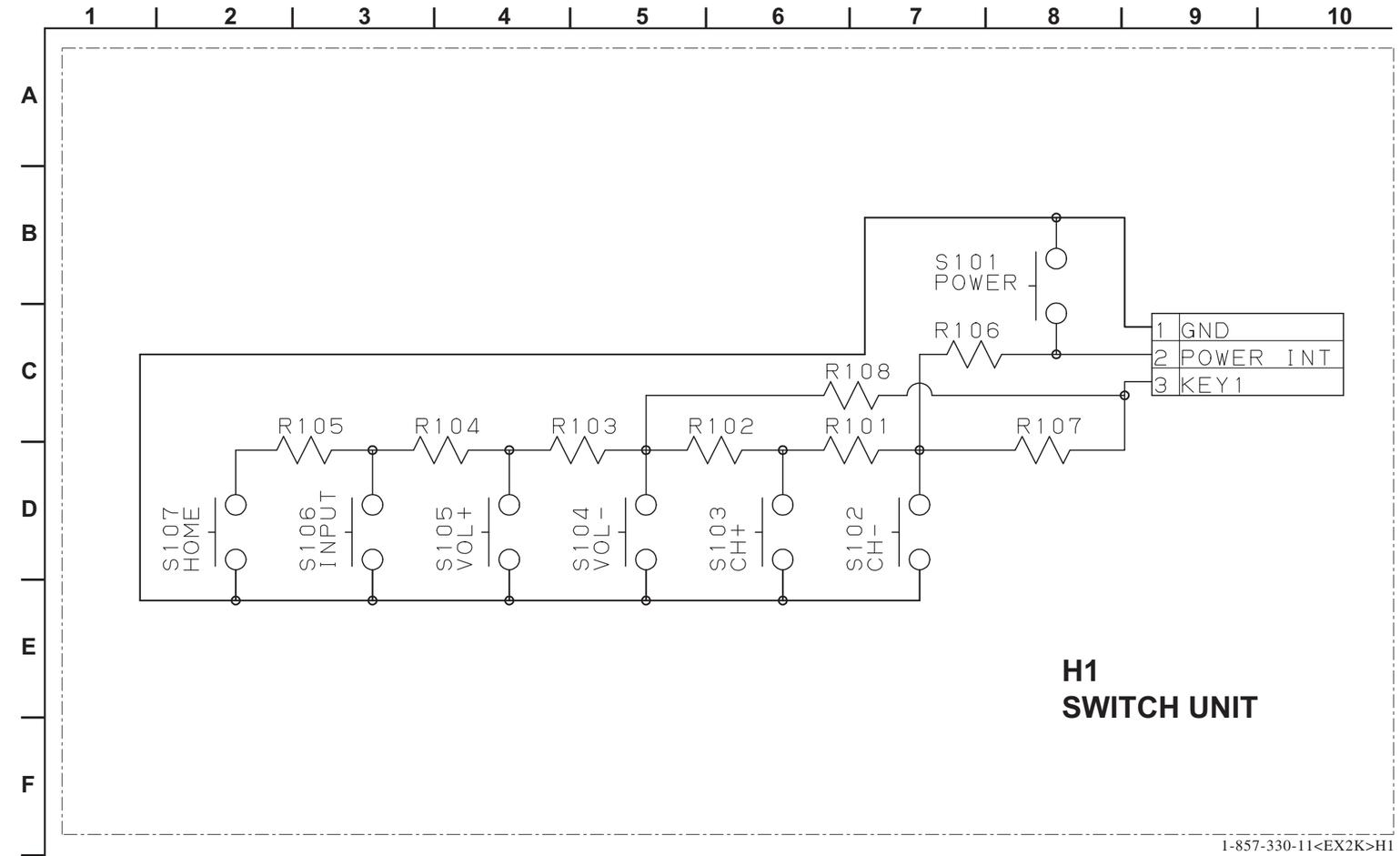
G2BE [POWER] COMPONENT SIDE



G2BE [POWER] CONDUCTOR SIDE



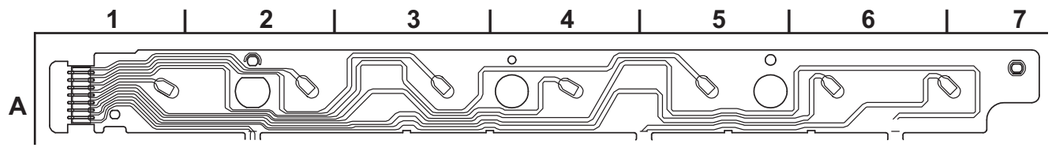
H1 BOARD SCHEMATIC DIAGRAM



1-857-330-11<EX2K>H1

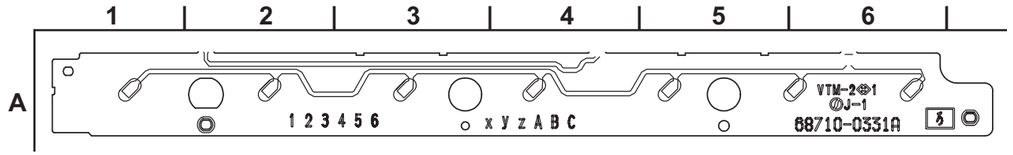
H1 [SWITCH UNIT]

COMPONENT SIDE

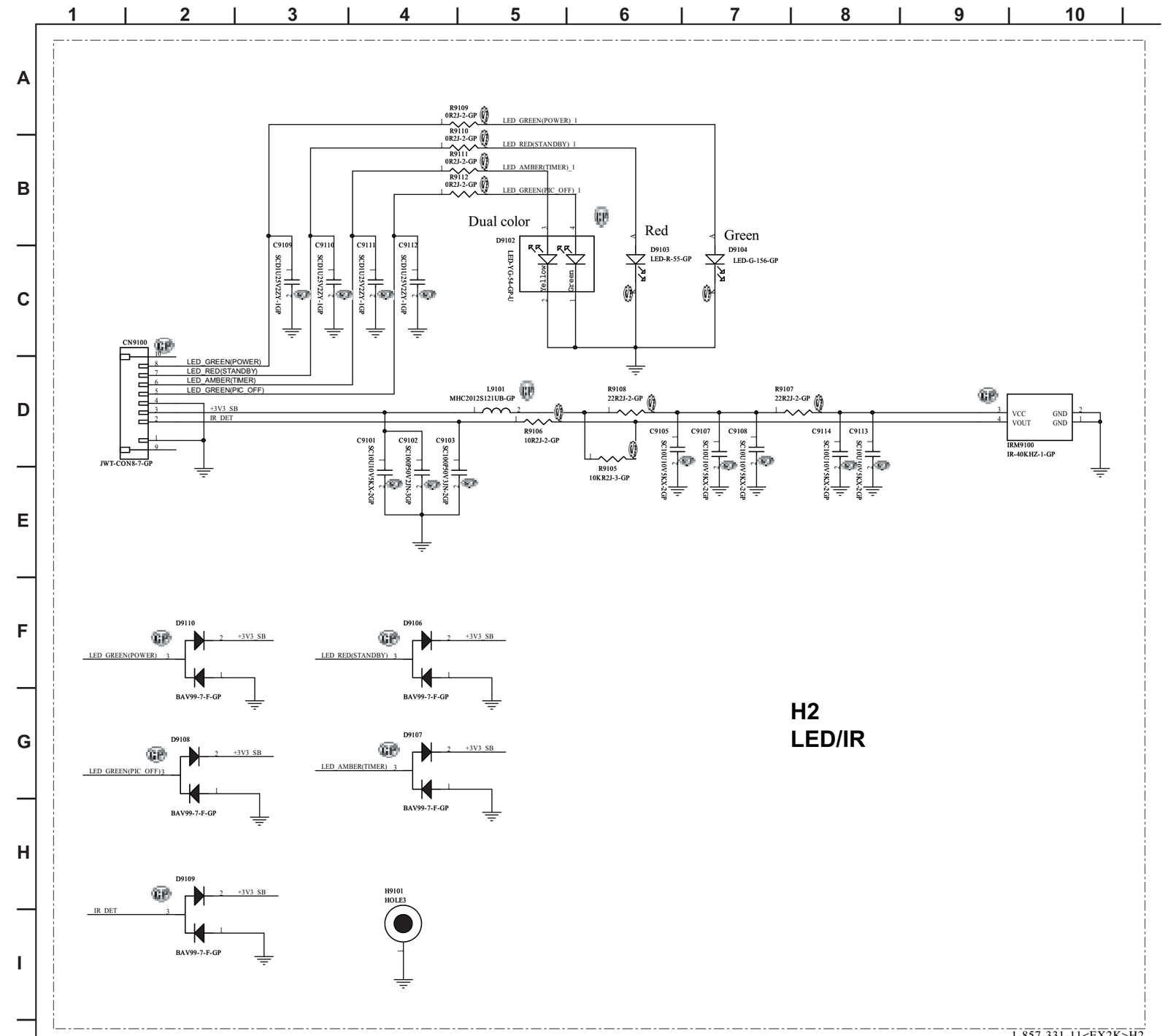


H1 [SWITCH UNIT]

CONDUCTOR SIDE



H2 BOARD SCHEMATIC DIAGRAM

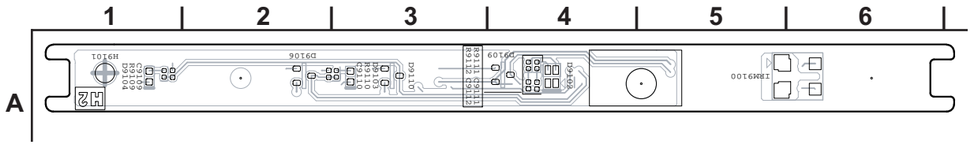


H2
LED/IR

1-857-331-11<EX2K>H2

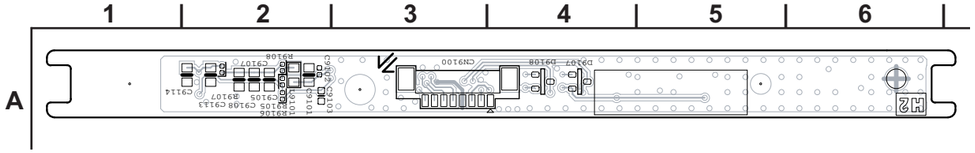
H2 [IR/LED]

COMPONENT SIDE



H2 [LED/IR]

CONDUCTOR SIDE



SECTION 4: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace ONLY) with part number specified.

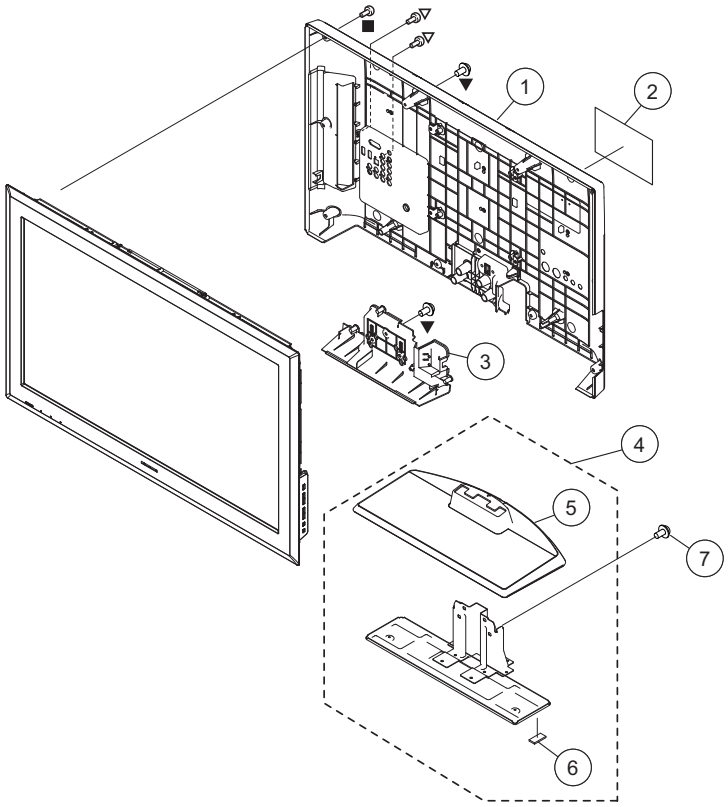
NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-1. REAR COVER ASSEMBLY AND TABLE-TOP STAND ASSEMBLY

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

■	7-685-662-29	SCREW, +BVTP2 4X14
▼	7-682-961-09	SCREW, +PSW M4X8
▽	7-685-646-79	SCREW, +BVTP2 3X8



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
1	X-2345-467-1	REAR COVER ASSY (26) (KDL-26L5000 ONLY)	
1	X-2345-468-1	REAR COVER ASSY (32) (KDL-32L5000 ONLY)	
* 2	4-132-197-01	LABEL, INFORMATION (26) (KDL-26L5000(US/CND) ONLY)	
* 2	4-133-596-01	LABEL, INFORMATION (26 MX) (KDL-26L5000(MX) ONLY)	
* 2	4-132-198-01	LABEL, INFORMATION (32) (KDL-32L5000(US/CND) ONLY)	
* 2	4-135-596-01	LABEL, INFORMATION (32 MX) (KDL-32L5000(MX) ONLY)	
3	4-132-155-01	COVER, UNDER (26)	
4	X-2345-301-1	STAND ASSY (M1G)	[5-6]
5	4-132-178-01	COVER, STAND (26)	
6	4-132-194-01	FOOT	
7	2-580-608-01	SCREW, +PSW M5X16 (SCREWS TO ATTACH TABLE-TOP STAND TO LCD TV) For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV CAUTION: These screws cannot be used to secure the TV to the Wall Mount Brackets.	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace ONLY) with part number specified.

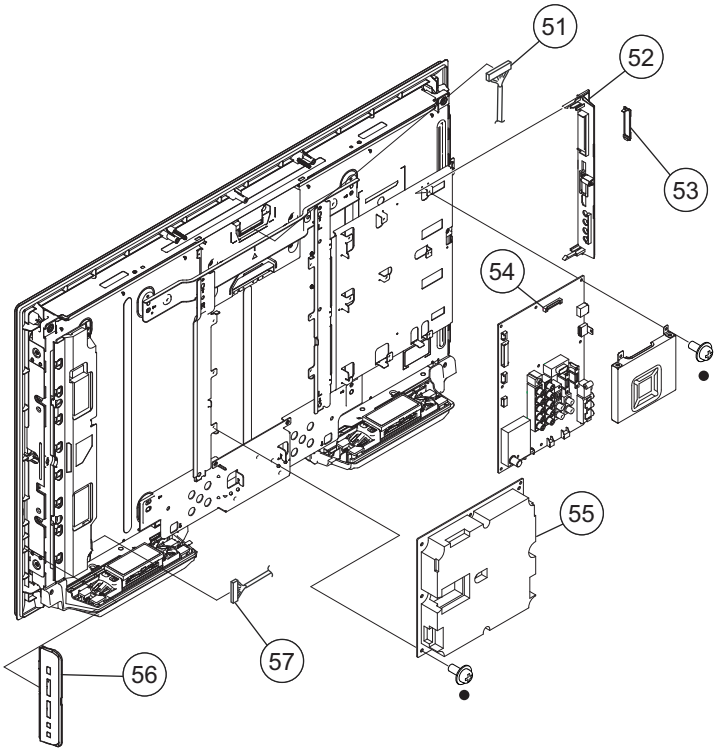
NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-2. CHASSIS

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

•	4-382-854-01	SCREW, +PSW M3X8



REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
51	1-910-053-56	CONNECTOR ASSY LVDS 26 (KDL-26L5000 ONLY)
		FOR ALL LVDS CONNECTOR PART NUMBER INFORMATION
		REFER TO THE LCD PANELS SERVICE MANUAL
☛ 51	NA	CONNECTOR ASSY LVDS 32 (KDL-32L5000 ONLY)
		FOR ALL LVDS CONNECTOR PART NUMBER INFORMATION
		REFER TO THE LCD PANELS SERVICE MANUAL
52	4-132-171-01	COVER, SIDE JACK (22)
53	3-874-663-01	COVER, USB
☛ 🔒 54	NA	A BOARD, MOUNTED
		FOR ALL A BOARD PART NUMBER INFORMATION
		REFER TO THE LCD PANELS SERVICE MANUAL
☛ 55	1-474-163-31	G2BE BOARD, COMPLETE (Power Supply)
56	1-487-346-11	SWITCH UNIT (Contains H1 Board)
☛ 57	NA	CONNECTOR ASSEMBLY INVERTER
		FOR ALL INVERTER CONNECTOR PART NUMBER INFORMATION
		REFER TO THE LCD PANELS SERVICE MANUAL

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace ONLY) with part number specified.

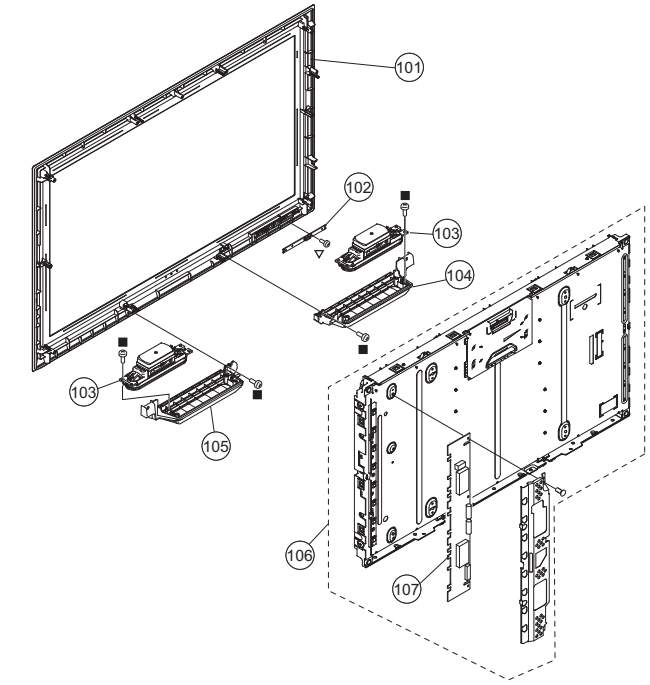
NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

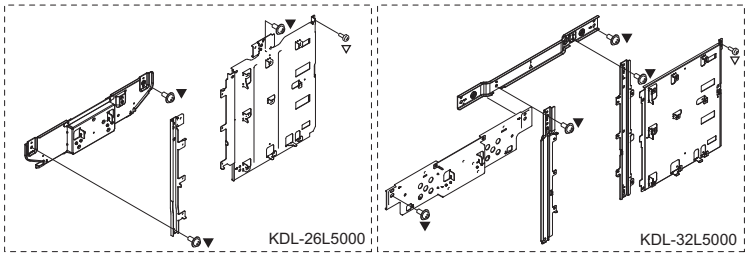
NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-3. BEZEL ASSEMBLY AND LCD PANEL

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

■	7-685-662-29	SCREW, +BVTP2 4X14
▼	7-682-961-09	SCREW, +PSW M4X8
▽	7-685-646-79	SCREW, +BVTP2 3X8 TYPE2 IT-3





REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
☛101	X-2345-295-1	BEZEL ASSY (26) (KDL-26L5000 US ONLY)	
☛101	X-2349-814-1	BEZEL ASSY (26F) (KDL-26L5000 CND/MX ONLY)	
☛101	X-2345-296-1	BEZEL ASSY (32) (KDL-32L5000 US ONLY)	
☛101	X-2349-815-1	BEZEL ASSY (32F) (KDL-32L5000 CND/MX ONLY)	
102	1-857-331-11	H2 BOARD, MOUNTED	
103	1-858-171-11	LOUDSPEAKER (KDL-26L5000 ONLY)	
103	1-826-873-11	LOUDSPEAKER (3.4X17.5CM) (KDL-32L5000 ONLY)	
104	4-132-149-01	PLATE, SP BAFFLE LEFT(26) (KDL-26L5000 ONLY)	
104	4-132-151-01	PLATE, SP BAFFLE LEFT(32) (KDL-32L5000 ONLY)	
105	4-132-148-01	PLATE, SP BAFFLE RIGHT(26) (KDL-26L5000 ONLY)	
105	4-132-150-01	PLATE, SP BAFFLE RIGHT(32) (KDL-32L5000 ONLY)	
☛106	NA	LCD PANEL (26 INCH WXGA TFT) (KDL-26L5000 ONLY) FOR ALL LCD PANEL PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	[107]
☛106	NA	LCD PANEL (32INCH WXGA TFT) (KDL-32L5000 ONLY) FOR ALL LCD PANEL PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	[107]
☛107	NA	ETC-INVERTER MT BOARD FOR ALL ETC-INVERTER MT BOARD PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	

4-4. SCREW LEGEND

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

KDL-26L5000				
	P/N	DESCRIPTION	QUANTITY	TOTAL
■	7-685-662-29	Screw +BVTP2 4 x 14	RC-12 SPKRBRKT-2 SPKR-8 LCD-2	24
□	7-682-973-49	Screw +PSW M5 x 16	TABLE-TOP STAND-4	4
▼	7-682-961-09	Screw +PSW M4x 8	RC-2 UC-1 MAINBRKT-2 SPINE-2 BTMBRKT-1	8
▽	7-685-646-79	Screw +BVTP2 3x 8	RC-1 TERMINAL-2 H2-1 MAINBRKT-1	5
●	4-382-854-01	Screw +PSW M3 x 8	G-6 A-9	15
KDL-32L5000				
	P/N	**DESCRIPTION**	**QUANTITY**	**TOTAL**
■	7-685-662-29	Screw +BVTP2 4x 14	RC-12 SPKRBRKT-2 SPKR-8 LCD-2	24
□	7-682-973-49	Screw +PSW M5 x 16	TABLE-TOP STAND-4	4
▼	7-682-961-09	Screw +PSW M4x 8	RC-2 UC-1 SPINE-4 BTMBRKT-2 TOPBRKT-2	13
▽	7-685-646-79	Screw +BVTP 3x 8	RC-1 TERMINAL-2 H2-1 MAINBRKT-1	5
●	4-382-854-01	Screw +PSW M3 x 8	G-6 A-9	15

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

REF. NO.	PART NO.	DESCRIPTION	VALUES
		ACCESSORIES AND PACKING	
⚠	1-836-501-11	AC POWER SUPPLY CORD WITH CONN	
*	3-876-008-01	BAG, PROTECTION (40)	
*	3-876-009-01	BAG, PROTECTION STAND (40)	
*	4-132-216-01	CUSHION LOWER (26) (KDL-26L5000 ONLY)	
*	4-132-218-01	CUSHION LOWER (32) (KDL-32L5000 ONLY)	
*	4-132-215-01	CUSHION UPPER (26) (KDL-26L5000 ONLY)	
*	4-132-217-01	CUSHION UPPER (32) (KDL-32L5000 ONLY)	
	4-132-224-11	GUIDE, QUICK SET UP (English Version) (KDL-26/32L5000(US/CND) ONLY)	
	4-132-224-21	GUIDE, QUICK SET UP (French Version) (KDL-26/32L5000(CND) ONLY)	
	4-132-224-31	GUIDE, QUICK SET UP (Spanish Version) (KDL-26/32L5000(MX) ONLY)	
*	4-132-206-01	INDIVIDUAL CARTON (26 MX) (KDL-26L5000 (MX) ONLY)	
*	4-132-205-01	INDIVIDUAL CARTON (26) (KDL-26L5000 (US/CND) ONLY)	
*	4-132-208-01	INDIVIDUAL CARTON (32 MX) (KDL-32L5000 (MX) ONLY)	
*	4-132-207-01	INDIVIDUAL CARTON (32) (KDL-32L5000 (US/CND) ONLY)	
	4-132-223-11	MANUAL, INSTRUCTION (English Version) (KDL-26/32L5000 (US/CND) ONLY)	
	4-132-223-21	MANUAL, INSTRUCTION (French Version) (KDL-26/32L5000 (CND) ONLY)	
	4-132-223-31	MANUAL, INSTRUCTION (Spanish Version) (KDL-26/32L5000 (MX) ONLY)	

REF. NO.	PART NO.	DESCRIPTION	VALUES
		MISCELLANEOUS	
	2-580-608-01	SCREW, +PSW M5X16 (SCREWS TO ATTACH TABLE-TOP STAND TO LCD TV) For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV. CAUTION: These screws cannot be used to secure the TV to the Wall Mount Brackets.	
☛	X-2348-141-2	SUPPORT BELT KIT	
		REMOTE COMMANDER	
	1-487-180-11	REMOTE COMMANDER (RM-YD028)	
	9-885-117-43	COVER, BATTERY (For RM-YD028)	

APPENDIX A: ENCRYPTION KEY COMPONENTS

Encryption key components developed by Sony Corporation contain confidential information, and shall be handled under the non-disclosure obligations provided in the applicable agreement with Sony Corporation (and/or its subsidiary).

As part of this agreement specific instructions must be adhered to whenever a Circuit Board containing encryption key components is repaired and/or replaced pursuant to the following:

1) **In the service manual the Circuit Board(s) containing encryption key components shall be identified with a red outline and a .**

2) **Only repair boards or components listed in the service manual shall be utilized for replacement and/or repair.**

3) **Disassembly, decryption, or reverse-engineering component(s) is strictly prohibited.**

4) **Any board in which the Servicer replaces an encryption key component must be placed back into the set it orignally came from and the replaced defective component MUST BE DESTROYED. Boards cannot be swapped.**

5) **If a Circuit Board identified with a red outline and a in the service manual is deemed to be defective:**

   a) **and if a core charge is imposed and is covered under the product warranty, the defective un-repaired or modified board MUST BE RETURNED to Sony.**

   b) **and if the core charge is NOT covered under the product warranty, the defective un-repaired or modified board MUST BE DESTROYED.**

5) **If a unit is destroyed (such as field scrap), the Circuit Board identified with a red outline and a in the service manual MUST BE DESTROYED.**

SERVICE MANUAL

EX2K CHASSIS

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to the Service Promotion Department at Service_Promotion@am.sony.com.